

Addendum/Addenda

Project Description / Description de projet 5378 - M2 Washrooms Renovation (phase 2) & 5379 – M59 Washrooms Renovation (phase 2)		
Solicitation No./ N° de sollicitation 17-22019	Project No./N° de projet 5378 / 5379	W.O. No./N° d'ordre de travail 765427
Departmental Representative / Représentant Ministériel Janik Leroux	Date June 14 th , 2017	
Notice: 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.		Note: 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.

The following documents are part of the contractual documents and the bidders shall consider the described below services as part of their proposals:

Job showing sign-in sheet, existing architectural, electrical and mechanical M2 and M59 basement and first floor floor plans, M2 and M59 Buildings' DSR, Toilet and shower partitions shop drawings.

Scope modifications:

Architectural Work:

1. Bidders must ensure that the new welded vinyl flooring is cleaned and waxed properly after installation according to the manufacturer specifications.

Abatement Work:

1. Abatement contractor to include for the required removal of the concrete slabs and / or trenching (all sub-trades are to identify the extent of the work for the Abatement Contractor).
2. Contractor to remove all asbestos containing piping during the construction where all penetrations occur as per the abatement scope of work.
3. The extent of the work is limited to all tasks mentioned in the technical documents that is related to the following washrooms / shower rooms : 124 (Building M2) and rooms 104, 115, 128 and 129 (Building M59).
4. Please refer to the attached Building Designated Substance Report (DSR) for buildings M2 and M59. A specific DSR for this project is already provided in the contractual documents.

Mechanical Work:

1. Scoping of drains connected with new fixtures in building M2 (washroom 124) will have to be made by the winning contractor.

Clarifications:

1. Contractor must transmit all air sampling test result to the construction project coordinator for all testing as soon as they become available.
2. All disruptive and noisy work tasks have to be completed after the regular business hours.
3. Bidders must make sure to fill in Appendix 1 form and return this form along with his / her bid. The same conditions and requirements that apply to the bid submission apply also for Appendix 1.

4. Contractor must make himself / herself aware of all considerations mentioned in Appendix 2.
5. Contractors must take into consideration that both buildings are Research and Testing Facilities and in such he / she may have to leave specific areas of work or the site during testing periods. These testing periods' times and durations are unknown and the project team can be notice only a few hours or at the beginning of such type of tests.
6. Alternates products such as lockers, shower partitions, washrooms' partitions, 2' x 2' and 2' x 4' lighting fixtures wont be reviewed since NRC has already those products as mentioned in the Appendix 2 document which is part of the contractual documents. As for other products, NRC is willing to review them as long they are submitted during the acceptable timeline.
7. The Job showing attendance sign-in sheet has been attached to this addendum for information purpose.

Questions / Answers:

1. **Question:** Regarding all washrooms, do we have access to the existing sanitary piping below the floor slab in a basement and/or crawl space to make necessary modifications? If yes, can you provide us with a plan indicating these areas for the washrooms with basement and/or crawl space access?
Answer: Please refer to the attached M2 and M59 Architectural, Mechanical and Electrical basement and ground floor drawings for more information. Bidders should not rely on those drawings as they are for information purpose only since NRC can't confirm they are reflecting existing conditions and might not be up to scale.
2. **Question:** Schedule wise is it possible to start washroom 124 in Building M2 and washroom 115 in Building M59 at the same time seeing they are not in the same buildings?
Answer: NRC is willing to evaluate the winning contractor proposed schedule. Please note that work can't occur at the same time in both washroom 115 and 128 in building M59.
3. **Question:** Providing us the shop drawings for the items supplied by the client would be greatly appreciated so that we can have a look at what we will have to assemble to figure out a cost for the labour to assemble and install them. Can you provide us these shop drawings?
Answer: Please refer to the attached products shop drawing for more details.
4. **Question:** Can you provide us with he size of the existing windows to receive translucent privacy film? Also, note that spec 08 87 53 2.1 lists two different film materials. I can only see the Translucent film as per note 19 on drawing 104 but I cant see the other material. Please clarify if the Blockout Film is being used on this project.
Answer: The existing window in Men's washroom no. 124 (Building M2) to be covered in translucent film is approximately 4.2m x 2m. The winning contractor will have to take the exact site measurements prior to proceed with the order and installation. The blackout film will not be used in the project, only the translucent privacy film.
5. **Question:** Is there any warranty issues with any of the roofs for these buildings?
Answer: For building M2: Roof work was done recently and there is a valid warranty on going at this time. The contractor who did the work is Tricrest Roofing. For building M59, no roof work was done over the last few years so no warranty is on going.

Alternates:

1. The following alternates that were submitted are accepted: ASI American Specialties Inc. (Washrooms Accessories: fixed angle tilt mirror model 0535, shower curtain 1200-V, stainless steel shower curtain hook model 1200-SHU, wall mounted shower seat 8203, grab bars series 3800, surface mounted shelf 0694 and Robe hook 7340. All other ASI products submitted that are not part of the above list are rejected.
2. All alternates for shower and toilet stalls as well as lockers are rejected since NRC already has those products (refer to Appendix 2 in the contractual documents).
3. The following door operators products from Record – USA are accepted: Low energy swing door operators series 6100, model 6104 (Left hand), 6105 (Right hand), 6100 (RHR), 6101 (LHR), 6108 (LH) and 6109 (RH).

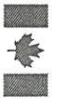
End of Addendum 1

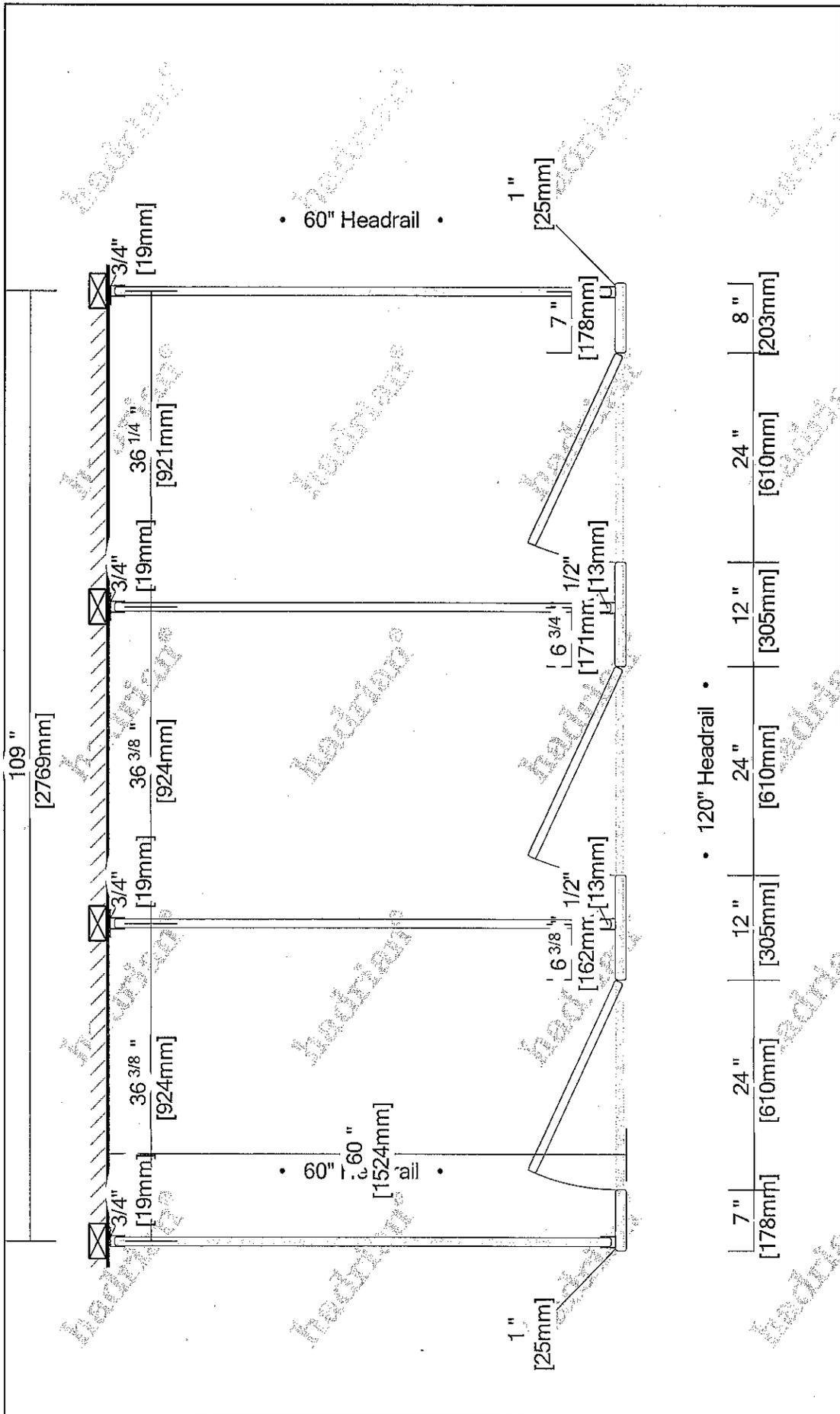


Mandatory Site Visit Attendance / Visite de chantier obligatoire

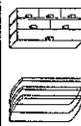
Project Description / Description de projet M-2/M-59 Washroom Renovation Phase II		Closing Date June 29, 2019	Closing time 2:00 PM
Solicitation No./N° de sollicitation 17-22019	Project No./No de projet 5348 & 5349	1st Showing June 6, 2016	Showing Time 9:00 AM
Departmental Representative / représentant Janik Leroux	Signature	Alternate/Questions deadline June 15, 2017	Addendum Deadline July 23/ 12:00

COMPANY/COMPAGNIE	NAME/NOM	SIGNATURE	PHONE/TELEPHONE	FAX/TELECOPIEUR	EMAIL/COURRIEL
McTarr	Howard Zephani		613-745-8688	613-711-9647	h.zephani@lcc.com.ca
LCC Canada	Adelemyr Odobala		613-224-7268		ade@lcc.com.ca
DRYAN SERVICES	JAMES SOUZA		613-834-0702	613-834-4747	James@dryan.com
GAULEC CONTRACTING	RAFIK COUDJIDA		613-818-0332		RAFIK@gauleccontracting.com
ARBEY LTD.	RIVAN COBURN		613-242-8398		RIVAN@ARBEY.NKT
PB FORD Constr.	Yves Séguin		613-614-4377		YVES.SEGUIN@PB.FORD.CA
STAWN CONSTRUCTION	Fouf BOURGINS		619-599-1766	619-205-1632	Felipe@stawnconstruction.com
Soderco	Philippe Blais		June 8 2017		
FIN GROUP	Michel Lapocan		819-743-6533	819-663-5550	Michel@fin.com.ca
PASCAL ST. AMOUR	DIÉRIAN		819-664-7212		ESTIM@pascalst.com.ca
DORVILLE INC	Arnold Smith		613-913-3539	613-211-7679	arnoldsmith@dnv.com
DORVILLE INC	Carole Leduc		613-749-1311		carole@dnv.com
FERANO	DAVID BOUCHER		613-913-6346		dboucher@ferano.ca
BMI	JADE ANZURES		613-914-8540		jade@bmi-ind.com
DRYCORE Electric	MINHAS UDDIN		613-245-7600	EXT 229	mimhas@drycore.com.ca





Product: Toilet Partitions Material: Powder Coated Finish: 535 - Light Grey Type: Headrail Braced Series: Standard AFF: 12" Hinge: Concealed
 Hardware: Chrome Sighting Option: None Options: None

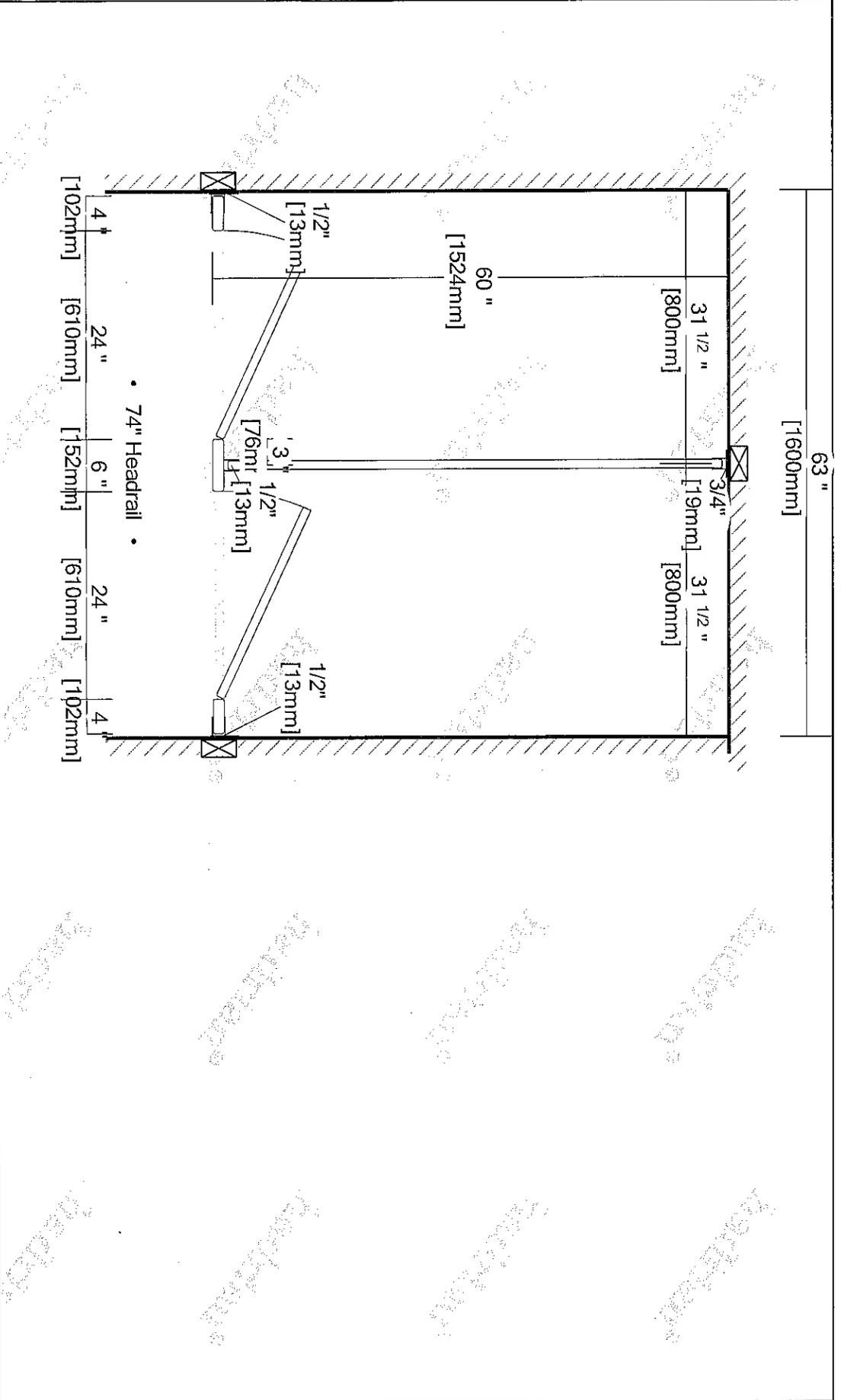


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Project Title: NRC - M2&M59 BUILDINGS
 Drawing Title: M2-124
 Drawn By: Allmar-Belcam
 Date Printed: Apr 13, 2017
 Reference #: PO0172547

Revision 2: Oct 5, 2016
 Revision 1: Oct 5, 2016
 Revision 0: Sep 19, 2016

- Unit widths are shown at center line of panels.
- Unit depths are shown from front face of plaster to finished wall.
- Cut headrail to suit (if necessary).
- indicates that backing is required.
- indicates location of plaster reinforcing channel(s).
- Material supplied will conform to the dimensions indicated.
- Scale = none.

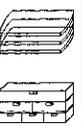


Product: Toilet Partitions Material: Powder Coated Finish: 535 - Light Gray Type: Headrail Braced Series: Standard AFF: 12" Hinge: Concealed
 Hardware: Chrome Sightline Option: None Options: None

Project Title: NRC - M2&M59 BUILDINGS
 Drawing Title: M2-271B
 Drawn By: Allmar-Belcam
 Date Printed: Apr 13, 2017
 Reference #: PO0172547

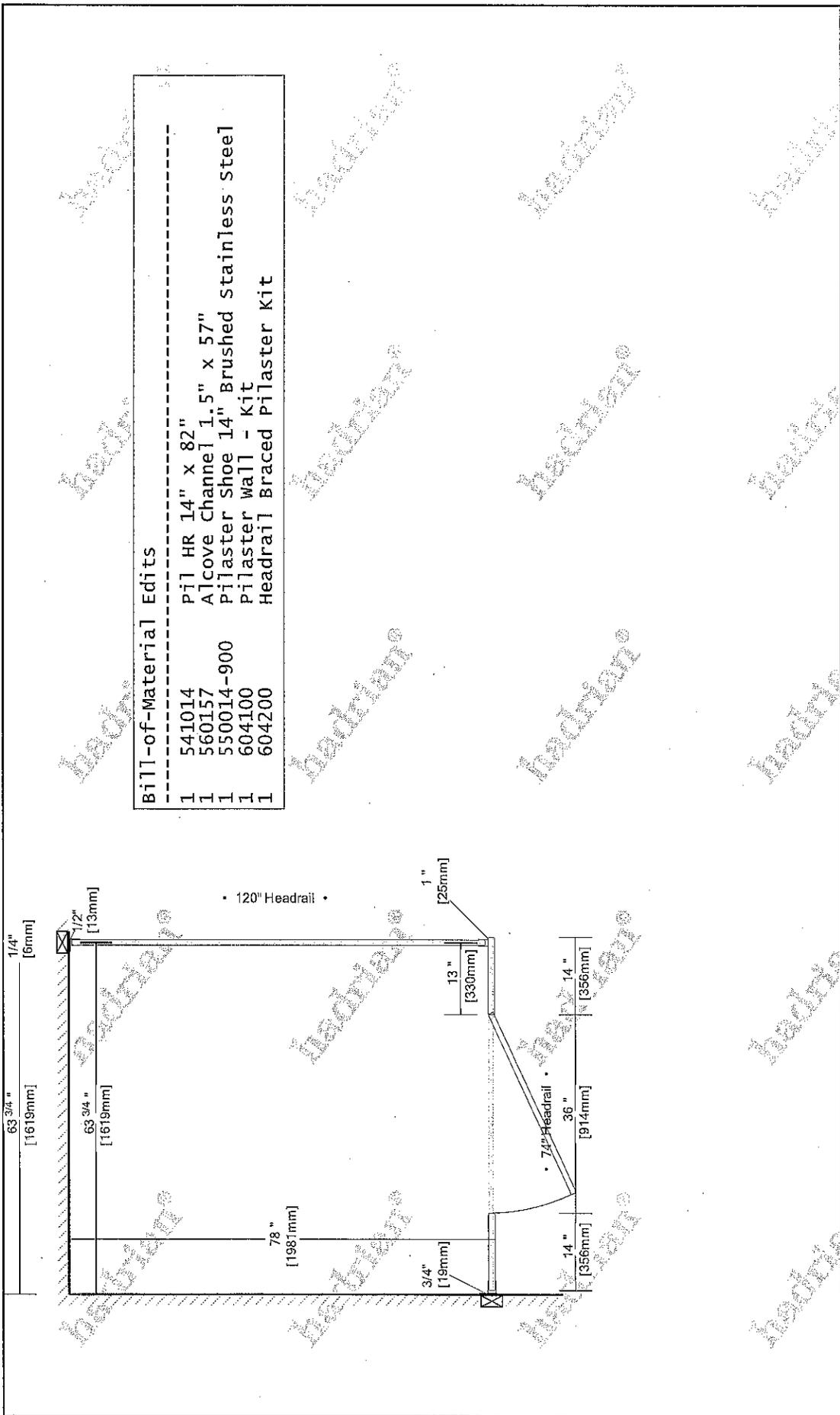
Revision 2: Oct 5, 2016
 Revision 1: Oct 5, 2016
 Revision 0: Sep 19, 2016

- Unit widths are shown at center line of panels.
- Unit depths are shown from front face of plaster to finished wall.
- Cut headrail to suit (if necessary).
- [Symbol] indicates that backing is required.
- [Symbol] indicates location of plaster reinforcing channel(s).
- Material supplied will conform to the dimensions indicated.
- Scale = none.



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Product: Toilet Partitions Material: Powder Coated Finish: 535 - Light Grey Type: Headrail Braced Series: Standard AFF: 12" Hinge: Concealed
 Hardware: Chrome Sightline Option: None Options: None

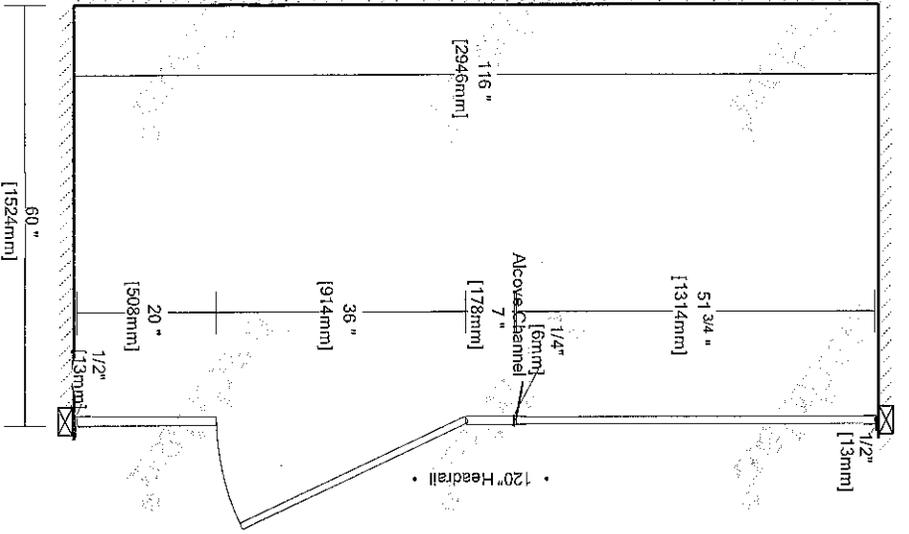


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Project Title: NRC - M2&M59 BUILDINGS
 Drawing Title: M59- 115
 Drawn By: Allmar-Belcam
 Date Printed: Apr 13, 2017
 Reference #: PO0172547

Revision 2: Oct 5, 2016
 Revision 1: Oct 5, 2016
 Revision 0: Sep 19, 2016

- Unit widths are shown at center line of panels.
- Unit depths are shown from front face of pilaster to finished wall.
- Cut headrail to suit (if necessary).
- Indicates that backing is required.
- Indicates location of pilaster reinforcing channel(s).
- Material supplied will conform to the dimensions indicated.
- Scale = none.



Product: Toilet Partitions Material: Powder Coated Finish: 535 - Light Grey Type: Headrail Braced Series: Standard AFF: 12" Hinge: Concealed
 Hardware: Chrome Sightline Option: None Options: None



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Project Title: NRC - M2&M59 BUILDINGS
Drawn By: M59-128
Date Printed: Allmar-Belcam
Reference #: Apr 13, 2017
 PO0172547

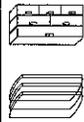
Revision 2: Oct 5, 2016
Revision 1: Oct 5, 2016
Revision 0: Sep 19, 2016

- Unit widths are shown at center line of panels.
- Unit depths are shown from front face of plaster to finished wall.
- Cut headrail to suit (if necessary).
-  Indicates that backing is required.
-  Indicates location of plaster reinforcing channel(s).
- Material supplied will conform to the dimensions indicated.
- Scale = none.

Bill-of-Materials

10	743218	Emp Base Side 18"
14	743236	Emp Box Base Front/Back 12"
2	743430-000	Emp Dress End Lock Strip 72"
2	743518	Emp Dress End 18" x 72"
3	752018	Gld Side 18" x 72"
161	790026	Locker Rivet - Gladiator
7	702260-2	12" x 18" x 72" - 2 Tier Locker Gladiator

Product: Lockers, Adfer Configuration: 7 Gld, 12"x18"x72", 2/Tier, Padlock, 16Ga, Door: 500-White, Frame: 500-White, Rivets, Seq#: 1-30.



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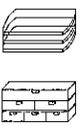
Project Title: NRC - M2&M59 BUILDINGS
 Drawing Title: LOCKERS ROOM 128
 Drawn By: Allmar-Belcam
 Date Printed: Apr 13, 2017
 Reference #: PO0172547

Revision 2: Oct 5, 2016
 Revision 1: Oct 5, 2016
 Revision 0: Sep 19, 2016

Bill-of-Materials

7	743218	Emp Base Side 18"
10	743236	Emp Box Base Front/Back 12"
2	752018	Gld Side 18" x 72"
106	790026	Locker Rivet - Gladiator
5	702260-2	12" x 18" x 72" - 2 Tier Locker Gladiator

Product: Lockers, Adder Configuration: 5 Gld, 12"x18"x72", 2/Tier, Padlock, 16Ga, Door: 500-White, Frame: 500-White, Rivets, Seq#:TBA,



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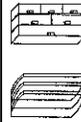
Project Title: NRC - M2&M59 BUILDINGS
 Drawing Title: LOCKERS 124
 Drawn By: Allmar-Belcam
 Date Printed: Apr 13, 2017
 Reference #: PO0172547

Revision 2: Oct 5, 2016
 Revision 1: Oct 5, 2016
 Revision 0: Sep 19, 2016

Bill-of-Materials

4	743218	Emp Base Side 18"
6	743236	Emp Box Base Front/Back 12"
1	743430-000	Emp Dress End Lock Strip 72"
1	743518	Emp Dress End 18" x 72"
1	752018	Gld Side 18" x 72"
60	790026	Locker Rivet - Gladiator
3	702260-2	12" x 18" x 72" - 2 Tier Locker Gladiator

Product: Lockers, Adder Configuration: 3 Gld, 12"x18"x72", 2Tier, Padlock, 16Ga, Door: 500-White, Frame: 500-White, Rivets, Seq#:TBA,

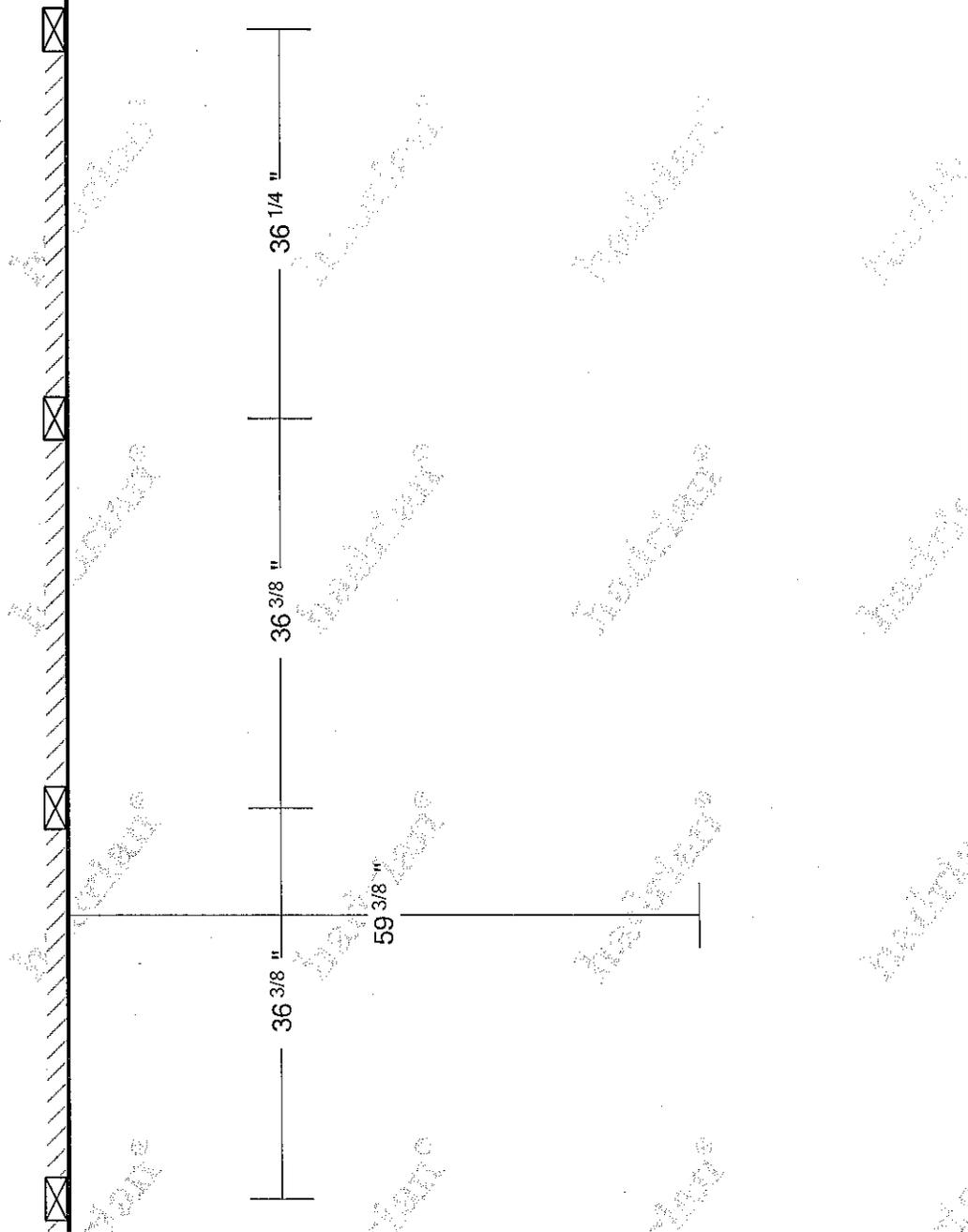


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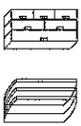
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Project Title: NRC - M2&M59 BUILDINGS
Drawing Title: LOCKERS 104
Drawn By: Allmat-Belcam
Date Printed: Apr 13, 2017
Reference #: PO0172547

Revision 2: Oct 5, 2016
Revision 1: Oct 5, 2016
Revision 0: Sep 19, 2016



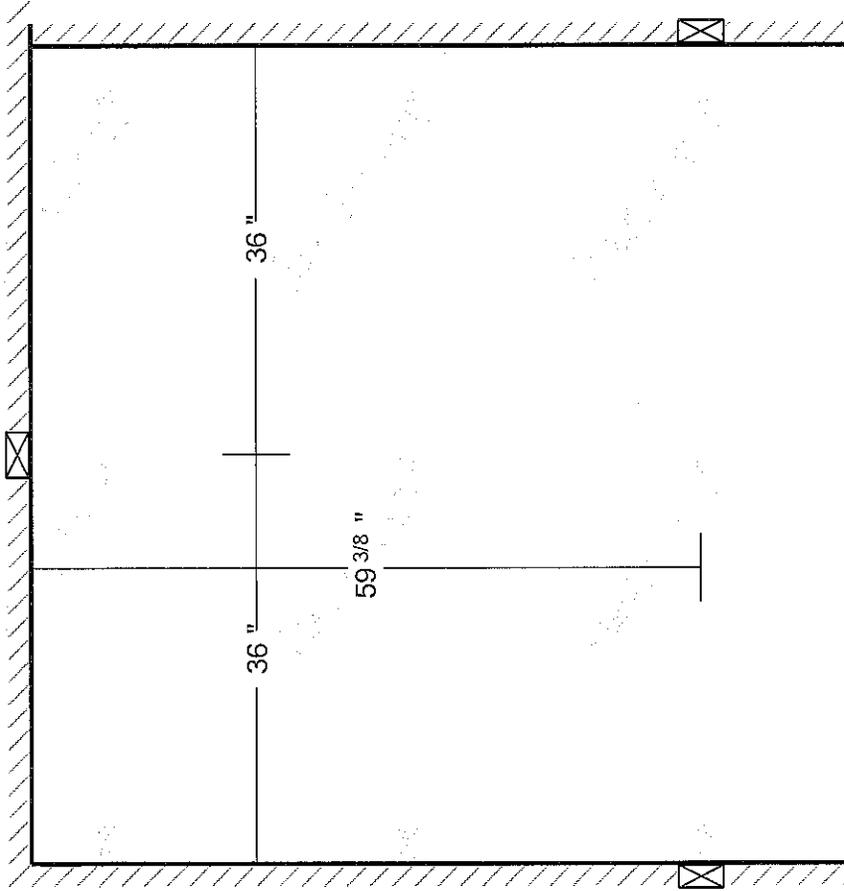
Product: Toilet Partitions Material: Powder Coated Finish: *** - Color TBA Type: Headrail Braced Series: Standard AFF: 12" Hinge: Concealed
 Hardware: Chrome Sightline Option: None Options: None


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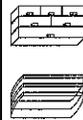
Project Title: NRC - M2&M59 BUILDINGS
 Drawing Title: M2-124
 Drawn By: Allmar-Belcam
 Date Printed: Sep 19, 2016

Revision 0: Sep 19, 2016

- Unit widths are shown at center line of panels.
- Unit depths are shown from front face of pilaster to finished wall.
- Cut headrail to suit (if necessary).
-  indicates that backing is required.
-  indicates location of pilaster reinforcing channel(s).
- Material supplied will conform to the dimensions indicated.
- Scale = none.



Product: Toilet Partitions Material: Powder Coated Finish: *** - Color TBA Type: Headrail Braced Series: Standard AFF: 12" Hinge: Concealed
 Hardware: Chrome Sightline Option: None Options: None



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Project Title: NRC - M2&M59 BUILDINGS

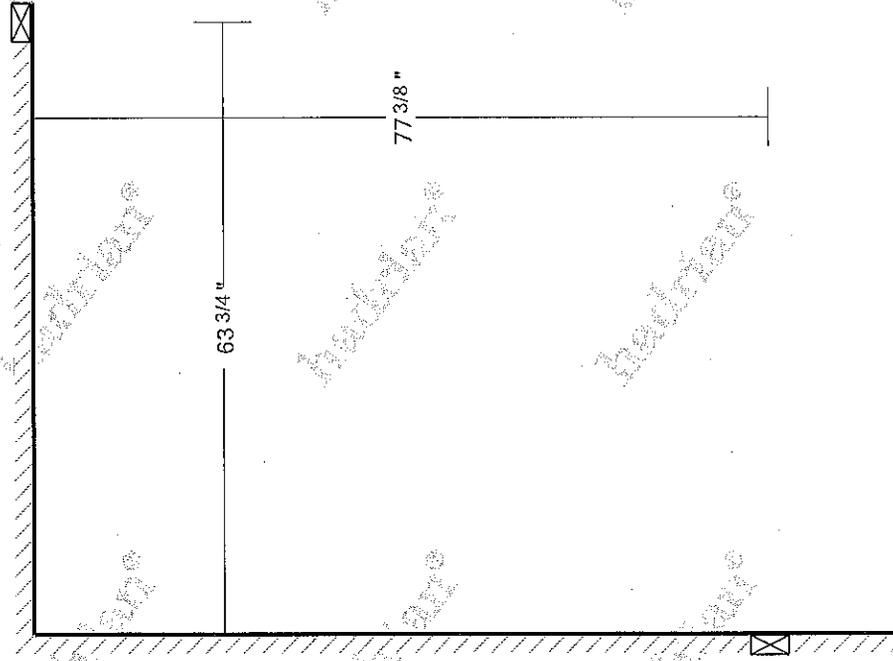
Drawing Title: M2-271B

Drawn By: Allmar-Belcam

Date Printed: Sep 19, 2016

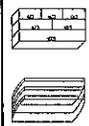
Revision 0: Sep 19, 2016

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- Unit depths are shown from front face of pilaster to finished wall.
- Cut headrail to suit (if necessary).
-  indicates that backing is required.
-  indicates location of pilaster reinforcing channel(s).
- Material supplied will conform to the dimensions indicated.
- Scale = none.



Product: Toilet Partitions Material: Powder Coated Finish: *** - Color TBA Type: Headrail Braced Series: Standard AFF: 12" Hinge: Concealed

Hardware: Chrome Sightline Option: None Options: None

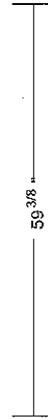
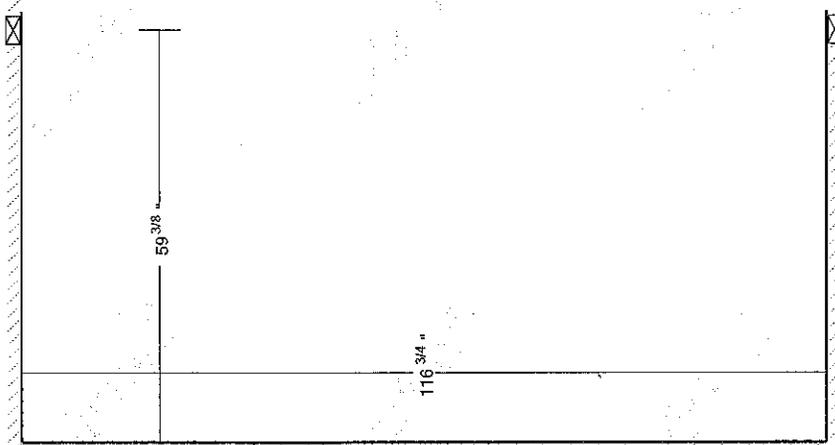


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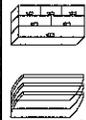
Project Title: NRC - M2&M59 BUILDINGS
 Drawing Title: M59- 115
 Drawn By: Allmar-Belcam
 Date Printed: Sep 19, 2016

Revision 0: Sep 19, 2016

- Unit widths are shown at center line of panels.
- Unit depths are shown from front face of pilaster to finished wall.
- Cut headrail to suit (if necessary).
-  indicates that backing is required.
-  indicates location of pilaster reinforcing channel(s).
- Material supplied will conform to the dimensions indicated.
- Scale = none.



Product: Toilet Partitions Material: Powder Coated Finish: *** - Color TBA Type: Headrail Braced Series: Standard AFF: 12" Hinge: Concealed
 Hardware: Chrome Sightline Option: None Options: None



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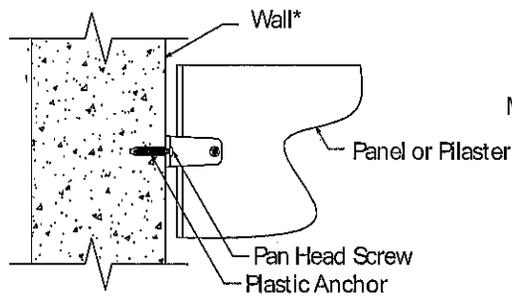
Project Title: NRC - M2&M59 BUILDINGS
 Drawing Title: M59-128
 Drawn By: Allmar-Belcam
 Date Printed: Sep 19, 2016

Revision 0: Sep 19, 2016

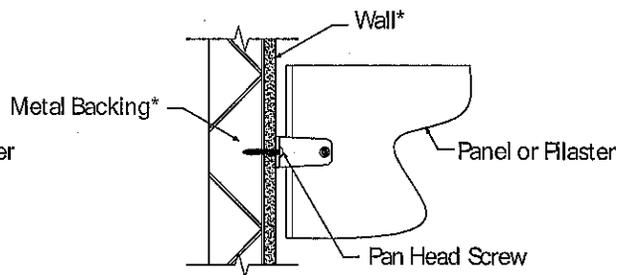
- Unit widths are shown at center line of panels.
- Unit depths are shown from front face of pilaster to finished wall.
- Cut headrail to suit (if necessary).
-  indicates that backing is required.
-  indicates location of pilaster reinforcing channel(s).
- Material supplied will conform to the dimensions indicated.
- Scale = none.

Recommended Methods for Attaching to a Wall

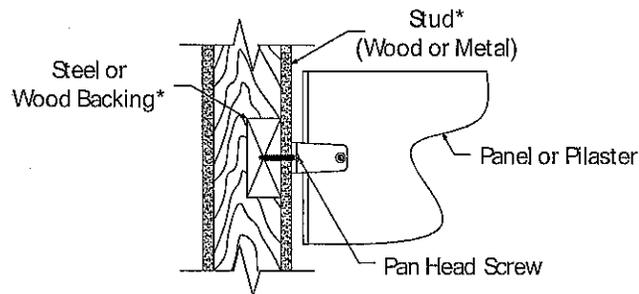
The details below demonstrate the recommended methods for attaching panels and pilasters to common wall types. Other wall types may be encountered. In all cases, proper wall backing is required to achieve a successful toilet partition installation.



Masonry Wall

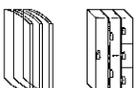


Sheet Metal Wall



Stud Wall

*Not Supplied by Hadrian



Material Specification

Headrail Braced Standard Powder Coated Metal Toilet Partitions

1.01 Construction Features

Doors, Panels and Pilasters shall be constructed of two sheets of panel flatness zinc-coated galvanized steel, ASTM A653 GR33, laminated under pressure to a honeycomb core for sound deadening and rigidity. Formed edges to be welded together and inter-locked under tension with a roll-formed oval crown locking bar, mitred, welded and ground smooth at the corners. Honeycomb to have a maximum 25mm (1") cell size.

1.02 Doors

Shall be 25mm (1") thick with cover sheets not less than 0.8mm (.030").

1.03 Panels

Shall be 25mm (1") thick with cover sheets not less than 0.8mm (.030").

1.04 Pilasters

Shall be 32mm (1.25") thick with cover sheets not less than 0.9mm (.036").

1.05 Headrail

Shall be 25mm (1") by 41mm (1.625") extruded anodized aluminum with anti-grip design. Wall thickness to be 1.5mm (.060") and shall be securely attached to wall and pilasters with manufacturer's fittings in such a way as to make a strong and rigid installation. All joints in headrails shall be made at a pilaster.

1.06 Pilaster Fastening Method

Pilasters shall be securely and rigidly fastened to the floor and fitted with a jack levelling screw for vertical adjustment. The floor fastening shall be concealed and protected by a 102mm (4") high, die-formed #4 brushed finish stainless steel pilaster shoe.

1.07 Hardware and Fittings

All panel and pilaster brackets and all door hardware shall be chrome plated zinc die castings.

Fasteners are zinc plated 12 x 1-3/4" and 12 x 5/8" TR-27 6-lobe security screws.

Doors shall be equipped with gravity type hinges mounted on upper and lower pilaster hinge brackets. Threaded top hinge pin shall be metal with a self-lubricating nylon sleeve. Door hinges shall be fully concealed within the thickness of the door and adjustable to permit the door to come to rest at any position when not latched.

Coat Hook and Bumper: Each door to be fitted with a combined coat hook and bumper. Finish to match other hardware items.

Latch to be a concealed, chrome plated zinc die casting with face mortised flush with edge strip of door.

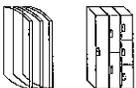
The combined stop and keeper shall have a 19mm (0.75") diameter bumper locked in place. Finish to match other hardware items.

Pilaster shoes to be stainless steel with a #4 brushed finish.

1.08 Finish

All sheet metal to be thoroughly cleaned, phosphated and finished with a high performance powder coating, baked on to provide a uniform smooth protective finish. Color shall be as selected from Hadrian's Color Chart.

This specification applies to room(s): M2-124 (p. 2), M2-271B (p. 3), M59- 115 (p. 4), M59-128 (p. 5)



Hadrian Manufacturing Inc., 965 Syscon Road, Burlington, ON, L7L 5S3 • Tel: (905) 333-0300 • Fax: (905) 333-1841

Hadrian Inc., 7420 Clover Avenue, Mentor, OH, 44060 • Tel: (440) 942-9118 • Fax: (440) 942-9618

Hadrian Inc., 3602 West Washington Street, Suite 200, Phoenix, AZ 85009 www.hadrian-inc.com

Material Specification

Gladiator Powder Coated Metal Lockers

1.01 Materials

All locker parts shall be made of mild cold rolled sheet steel free from surface imperfections and contaminants which would be detrimental to the acceptance of a high grade hybrid epoxy polyester powder finish. At a slight extra cost, locker parts may be made from galvanneal steel. Assembly fasteners shall be rivets (Advel #1661-0613) 3/16" aluminum dome head 8-25 dome with steel shaft. Zinc plated flat head screws with hex nuts are also available upon request.

1.02 Doors

Doors of one-tier, two-tier, three-tier, and four-tier Gladiator lockers shall consist of a perforated double-pan design consisting of a 16 gauge outer panel welded to an 18 gauge inner panel to form a rigid box construction which is resistant to prying. The outer panel shall be double flanged on all four edges and the inner panel single flanged on all four edges, providing extraordinary rigidity when both panels are welded together. Within a solid center section of the one, two, and three-tier doors (approximately 4" / 102mm above and 4" / 102mm below recessed handle) a structural and sound deadening 1" (25mm) cell honeycomb core is bonded to the inner surfaces and such area is separated from the perforated door section with 20 gauge full width channels. The door is ventilated at upper and lower sections with staggered 1/2" (13mm) wide by 1" (25mm) high oval perforations. Visual access and ventilation is maximized due to straight-through alignment of inner pan and outer pan perforations. Options available are plain (no ventilation) or offset perforations (not straight-through inner and outer pan holes) if concealing locker contents is preferred. The door shall be flush with the frame and include a recessed handle and recessed number plate. Five-tier and six-tier Gladiator doors shall consist of 20 gauge outer and 20 gauge inner panels with standard recessed handle and number plate, without honeycomb core and ventilated with staggered 1/2" (13mm) wide by 1" (25mm) high oval perforations. All Gladiator doors are hinged on the right to swing from left to right.

1.03 Door Frames

Both vertical members shall be not less than 16 gauge and formed into a rigid channel 5/8" (16mm) wide exposed frame and 2-7/16" (62mm) side depth. Hadrian's exclusive frame size offers wide door opening and ease of installing extra deep frame onto body. The frame shall be completed by 3" (76mm) high top and bottom cross members of not less than 18 gauge formed as an open box channel and welded to the verticals. The bottom frames' full-width lintel extends back and down to form a rigid box to support the bottom shelf. Both vertical frame members shall be formed to offer a full length 7/16" (11mm) wide continuous door strike. The latch vertical member shall include a welded 11 gauge padlock hasp together with a 7/16" (11mm) o.d. air-cushioned rubber bumper. No fasteners shall be exposed on fronts of locker doors and frames.

1.04 Body

Sides shall be not less than 16 gauge, ventilated with staggered 1/2" (13mm) wide x 1" (25mm) high oval perforations. Sides at exposed end conditions may be perforated or solid. Locker backs shall be solid, not less than 18 gauge with right angle flanges on each vertical side for strength, ease of assembly and rigidity (triple thickness of metal at back corner connections). Shelves, tops, and bottoms shall be not less than 16 gauge, formed into a sturdy pan, interchangeable, flanged on all sides, with a lip formed front edge for additional strength and safety. Although assembly by bolting is acceptable, Hadrian recommends assembly by riveting. Rivets provide solid permanent fastening but allow for faster removal by drilling where future rearrangement of lockers or replacement of damaged parts may be required.

1.05 Latching/Locking Device - Single Point

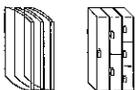
Trouble-free use is achieved with no sliding rods, springs, turnhandles or moving latches. An 11 gauge 2" (51mm) x 3/4" (19mm) padlock hasp shall be securely welded to the continuous strike midway up on the frame and centered at the handle location. The hasp shall be formed to protrude through an extruded aluminum recessed handle which is cliplocked and bonded to the door. The handle's inner surface shall be concave and grooved for finger-tip door control. To keep the door closed when not in use, a 1/2" (13mm) o.d. nylon friction catch shall be installed on the door to engage the frame in four (4) locations. Padlock is standard. For built-in locks (combination, key or coin/card operated) the hasp shall be replaced with a special 11 gauge security strike welded to the frame's continuous door strike. The lock bolt shall secure itself behind the strike. Access to the secured bolt shall be denied by the full length stop on the door frame and by the top lip of the strike projecting forward and fitting into a slot in the door, preventing the door and frame from being pried apart.

1.06 Hinge Continuous

A full-length 18 gauge continuous piano hinge shall be securely welded to the frame and fastened to the door with screws or rivets. Hinge shall maximize security and enhance resistance to abuse and vandalism.

1.07 Number Plate

Doors shall have a high strength black laminated plastic number plate 2-1/2" (64mm) wide x 1" (25mm) high with numbers not less than 7/16" (11mm) high. Plates shall accommodate up to four digits, there will be an upcharge for numbers above 999, be nestled in a recess flush with door surface and shall be fastened to door with two rivets. Unless otherwise specified, lockers will be number consecutively from 1 - up. Aluminum number plates are available upon request for an upcharge.



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Hadrian Inc., 3602 West Washington Street, Suite 200, Phoenix, AZ 85009 www.hadrian-inc.com

1.08 Interior Equipment

Standard equipment in the single tier locker shall be one hat shelf and three single prong coat hooks. Double and triple-tier lockers shall have three single prong coat hooks per compartment. All 18" (457mm) wide lockers shall have an additional single prong coat hook at back (four total per compartment). Double-prong hooks and coat rods with chrome zamac brackets also available as an option. Additionally, two side hooks will be provided when coat rods are requested. All hooks are zinc plated steel with ball point heads and are attached with two fasteners.

1.09 Bench/Pedestal

Benches are available in 3', 4', 5', 6', 7', 8', 10', 12' (mm=914, 1219, 1524, 1829, 2134, 2438, 3048, 3658) lengths. Bench seats shall be made of hardwood laminate and are 1-1/4" (32mm) thick by 9-1/2" (241mm) wide, by length. Corners and edges are rounded and the seat has a clear lacquer finish. Bench pedestals shall be 1/4" (6mm) x 2-1/2" (64mm) aluminum free from surface imperfections and contaminants that would be detrimental to the acceptance of a high grade hybrid epoxy polyester powder finish. Pedestals are painted to match locker door or frame color or desired Hadrian color. Pedestals are available with either Free-standing or Stationary hardware (ADA benches use stationary hardware).

1.10 Finish

All steel parts and aluminum pedestals to be thoroughly cleaned, phosphated and finished with a high performance powder coating, baked on to provide a uniform smooth protective finish. Color shall be as selected from Hadrian's Color Chart. Two-tone door and frame color combinations shall be available at no additional charge. Locker frames to be standard as Black #510, although the other standard colors are available without price increase. All interior body parts are finished in standard Light Grey #535.

1.11 Other

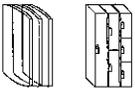
Box Base

Box Bases shall be made of 22 gauge galvaneal steel free from surface imperfections and contaminants that would be detrimental to the acceptance of a high grade hybrid epoxy polyester powder finish.

Trim and Fillers

"U" Fillers shall be made of 18 gauge and all other Trim and Fillers shall be made of 24 gauge mild cold rolled sheet steel free from surface imperfections and contaminants that would be detrimental to the acceptance of a high grade hybrid epoxy polyester powder finish. At a slight extra cost, locker parts may be made from galvaneal steel.

This specification applies to room(s): LOCKERS (p. 6)

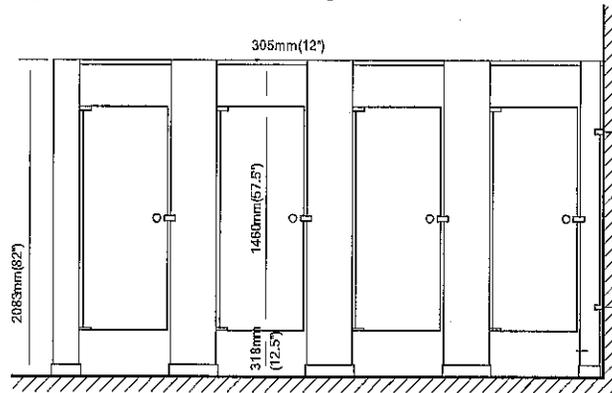


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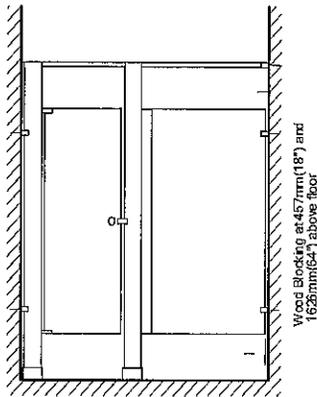
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Hadrian Inc., 3602 West Washington Street, Suite 200, Phoenix, AZ 85009 www.hadrian-inc.com

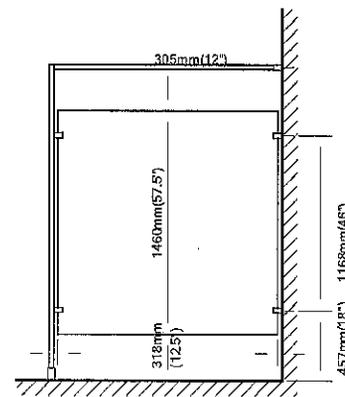
Typical Elevation Drawing: Headrail Braced Standard



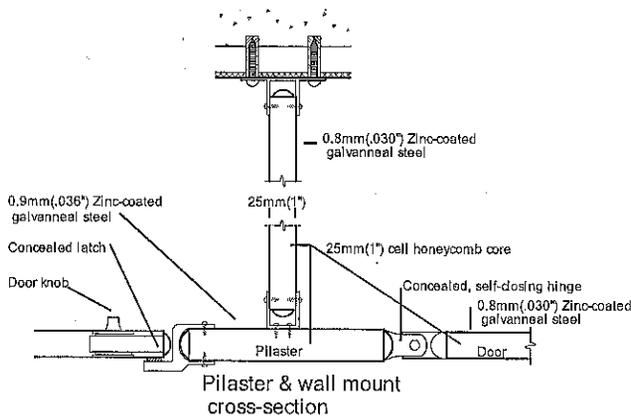
Headrail Braced Standard Front Elevation



Headrail Braced Standard Alcove Elevation

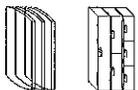
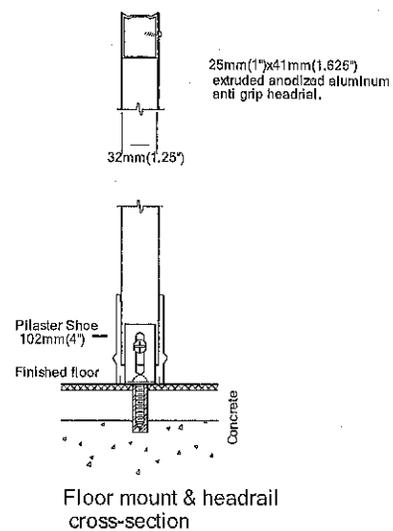


Headrail Braced Standard Panel Elevation

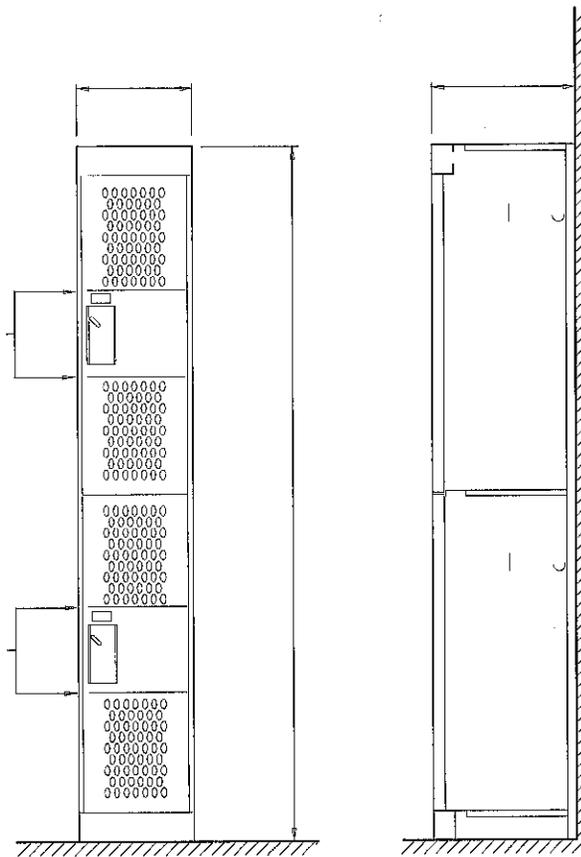


Important Notes:

Refer to final drawings for wood blocking information.
Wood blocking is critical to ensure rigid installation.



Typical Elevation Drawings: Gladiator Lockers (2 tiers)



Locker Doors

16 gauge outer panel /
18 gauge inner panel

Oval perforations are:
1/2" (13mm) W x 1" (25mm) H

1" (25mm) cell honeycomb core
as indicated

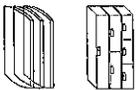
Lock Preparation

Padlock Preparation
Built-in Combination /
Cylinder Keylock Preparation

Locker Parts

Back Panel	18ga
Side Panel	16ga
Top, Bottom & Shelf	16ga
Door Strike (Frame)	16ga
Hasp	11ga
Hinge (Continuous)	16ga

Note: Locker growth 1/32"
(0.8mm) per locker

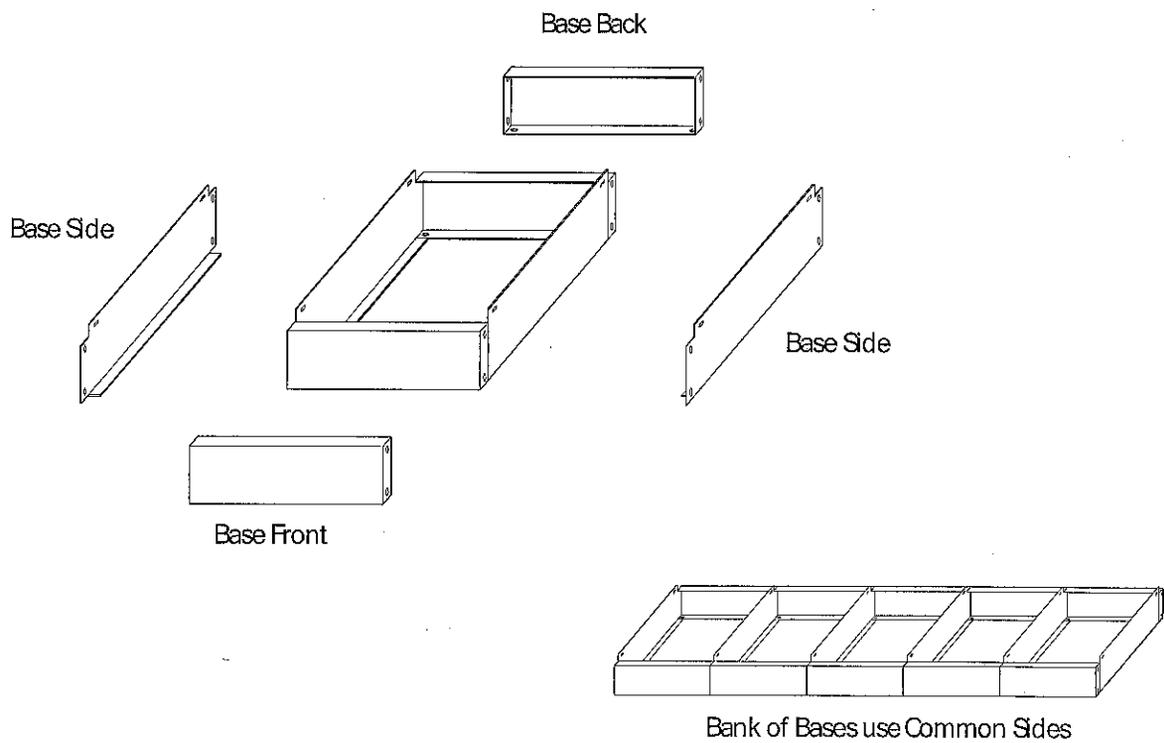


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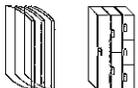
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Box Base



Notes

- Bases are made from 22 gauge material.
- Base Front and Backs are identical.
- Base sides are used as common sides.
- Bases are 3-1/2" (89mm) high.

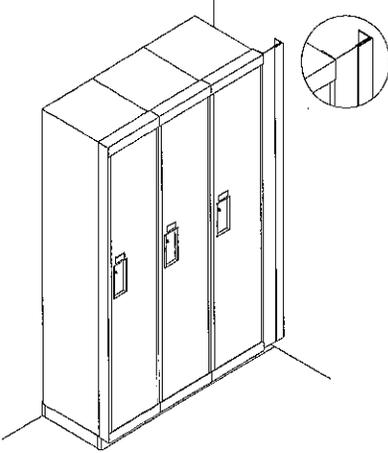


Trim & Fillers

Trim Angle

If a gap exists at the end of lockers in a corner, attach trim angles.

Starter Trim attaches to the wall and the Expansion Angle attaches to the locker.



Starter Trim

Made from 24 gauge material.

Available sizes:

- 1" (25mm) x 72" (1829mm)
- 2" (51mm) x 72" (1829mm)
- 1" (25mm) x 60" (1524mm)
- 2" (51mm) x 60" (1524mm)

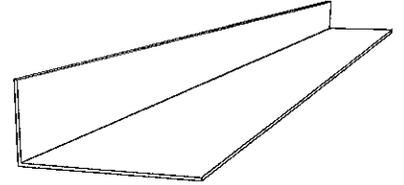
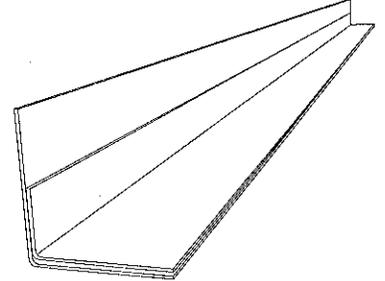
Expansion Angle

Made from 24 gauge material.

Available sizes:

- | | |
|----------------------------|----------------------------|
| 1" (25mm) x 72" (1829mm) | 1" (25mm) x 60" (1524mm) |
| 2" (51mm) x 72" (1829mm) | 2" (51mm) x 60" (1524mm) |
| 3" (76mm) x 72" (1829mm) | 3" (76mm) x 60" (1524mm) |
| 4" (102mm) x 72" (1829mm) | 4" (102mm) x 60" (1524mm) |
| 5" (127mm) x 72" (1829mm) | 5" (127mm) x 60" (1524mm) |
| 6" (152mm) x 72" (1829mm) | 6" (152mm) x 60" (1524mm) |
| 12" (305mm) x 72" (1829mm) | 12" (305mm) x 60" (1524mm) |

Note: Starter Trim and Expansion Angles also available in 18 gauge material. Contact Hadrian for details.



Filler Panel

If a gap exists between two banks of lockers, or to cover pipes or other unsightly elements, install a "U" shaped filler panel.

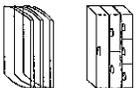
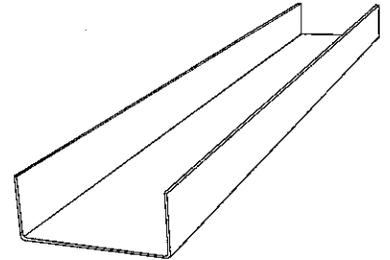
Install with fasteners from inside lockers to maintain a clean exterior with no exposed fasteners.

"U" Shaped Filler Panel

Made from 18 gauge material.

Available sizes:

- | | |
|----------------------------|----------------------------|
| 8" (203mm) x 72" (1829mm) | 8" (203mm) x 60" (1524mm) |
| 10" (254mm) x 72" (1829mm) | 10" (254mm) x 60" (1524mm) |
| 12" (305mm) x 72" (1829mm) | 12" (305mm) x 60" (1524mm) |
| 15" (381mm) x 72" (1829mm) | 15" (381mm) x 60" (1524mm) |
| 18" (457mm) x 72" (1829mm) | 18" (457mm) x 60" (1524mm) |



Warranty Information

Project Name: NRC - M2&M59 BUILDINGS

Hadrian Manufacturing Inc. ("Hadrian") provides the following warranty with respect to Hadrian toilet partitions and lockers.

Subject to the terms set out herein, the products are warranted against defects in material and workmanship from the date of receipt by the authorized Hadrian distributor for the applicable warranty periods outlined below:

- Powder Coated Toilet Partitions: 3 years
- Stainless Steel Toilet Partitions: 5 years
- Solid Plastic Toilet Partitions: 25 years
- Emperor (corridor) Lockers: 2 years
- Gladiator (athletic) Lockers: 5 years
- Replacement Front Lockers: 2 years

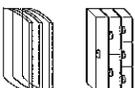
The warranty is for Hadrian material only and excludes damages caused by installation errors, vandalism, improper usage, improper maintenance, exposure to harsh environments or chemicals (such as chlorine, bromine, etc.) or failure of the building structure to adequately support the product. Site preparations (i.e. wood blocking, etc.) must meet final drawing specifications and Hadrian's recommended maintenance procedure must be followed.

The exclusive remedy under this warranty shall, at Hadrian's discretion, be replacement or repair of the defective material, Hadrian will not pay any removal, installation or other labour costs associated with the repair or replacement. Replacement material will be warranted for the unused portion of the original warranty period.

No warranty of merchantability or fitness for a particular purpose is made or implied. In no event shall Hadrian be liable for any other costs or damages, including loss of profit, loss of revenue, indirect, incidental, special or consequential damages howsoever arising, wither under warranty, contract, statute, tort, equity or otherwise.

This warranty extends only to the original customer and is non-transferable. Warranty claims must be made during the applicable warranty period and initiated by contacting Hadrian at the following coordinates: USA: 440-942-9118/CANADA: 905-333-0300.

The foregoing constitutes the entire warranty given by Hadrian and no one is authorized to change or expand this warranty on behalf of Hadrian.



Maintenance Procedure

For Powder Coated Metal Toilet Partitions and Urinal Screens

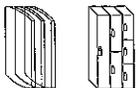
Hadrian's organic polymer powder produces an aesthetically pleasing finish that meets the high performance demands of washroom environments. The electrostatically applied powder is oven cured to exceed the performance specifications of liquid baked enamel paint. Hadrian's powder paints are safer on the environment due to reduced waste, low energy consumption, and the fact that they give off no solvent emissions.

Maintenance of your toilet partitions should be a part of your regular building preventive maintenance procedure.

1. Tighten any screws that have become loose due to vibrational forces or attempted vandalism.
2. Check the top door pin to be sure it is flush with the top of the hinge.
3. Be sure the surfaces are dry after being cleaned and rinsed with clear water (when required).
4. Partitions exposed to severe humidity should be washed and dried frequently. If partitions are in a shower room, a coat of paste wax is recommended on painted surfaces.
5. Periodically, remove any dirt, grime or foreign matter with a soft cloth.
6. Where surfaces reveal spotting resulting from hand perspiration, soil, or grease, a thorough cleaning with warm water and a mild detergent (ie. Ivory Soap), followed by rinsing, and removal of excess moisture, will renew the clean even surface, providing a pleasant sanitary appearance. (Use of cleaning agents containing abrasives such as household cleaning powder, steel wool, and harsh detergents or acids ARE NOT RECOMMENDED).

COMMERCIAL GRAFFITI REMOVERS SHOULD BE USED ON HADRIAN'S ANTI-GRAFFITI POWDER COATING ONLY. USE ON HADRIAN'S STANDARD POWDER COATING MAY RESULT IN DAMAGE TO THE FINISH.

7. To maintain the brilliance of hardware, these components can be periodically improved by an application of non-abrasive cleaner with a damp cloth.
8. Where additional gloss and protection is desirable, light applications of commercial liquid or paste waxes are highly recommended.



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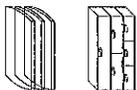
Hadrian Inc., 3602 West Washington Street, Suite 200, Phoenix, AZ 85009 www.hadrian-inc.com

Maintenance Procedure

For Powder Coated Metal Lockers

Hadrian lockers, featuring durable, double-pan, honeycomb filled doors with continuous piano hinges and a powder coated finish are of the highest quality available. To ensure optimum performance, durability and longevity, the following periodic maintenance is recommended.

1. Tighten any screws that have become loose due to vibrational forces or attempted vandalism.
2. Where surfaces reveal spotting resulting from hand perspiration, soil, or grease, a thorough cleaning with warm water and a mild detergent (ie. Ivory Soap), followed by rinsing, and removal of excess moisture, will renew the clean even surface, providing a pleasant sanitary appearance. (Use of cleaning agents containing abrasives such as household cleaning powder, steel wool, and hard detergents or acids ARE NOT RECOMMENDED). COMMERCIAL GRAFFITI REMOVERS SHOULD BE USED ON HADRIAN'S ANTI-GRAFFITI POWDER COATING ONLY. USE ON HADRIAN'S STANDARD POWDER COATING MAY RESULT IN DAMAGE TO THE FINISH.
3. Check surfaces for scratches and nicks. If these abrasions are deep and base metal is exposed, sand the area smooth. Paint the prepared area with air dry, touch-up enamel.
4. Lubricate the hinge (and positive single-point latch if applicable) periodically with a light grade (#10) machine oil. Operate door several times and wipe away excess oil.
5. Wax finished surfaces for added gloss and protection. Apply a coat of liquid or paste wax and rub to a glossy finish.





**LEED Version 3 (2009) Certification Information
for Hadrian Toilet Partitions and Lockers**

The U.S. Green Building Council's LEED (Leadership in Energy and Environmental Design) program is intended to raise awareness, establish standards for, and stimulate green building practices. Individual building products cannot be LEED certified. However, they can contribute toward the overall LEED certification of a building.

Hadrian products can contribute points in the following categories as outlined below:

MR Credit 4: Recycled Content:
To increase demand for building products that incorporate recycled content materials, thereby reducing impacts resulting from extraction and processing of virgin materials.

MR Credit 5: Regional Materials:
To increase demand for building materials and products that are extracted and manufactured within the region, thereby supporting the use of indigenous resources and reducing the environmental impacts resulting from transportation.

LEED CATEGORY	SECTION (& POINTS)	DESCRIPTION	POWDER-COATED TOILET PARTITIONS	STAINLESS STEEL TOILET PARTITIONS	SOLID PLASTIC TOILET PARTITIONS		LOCKERS	
					CLASS			
Recycled Content	MR Credit 4 (2 possible points)	Post-consumer ¹	36%	76%	0%		36%	
		Pre-consumer ²	14%	15%	Minimum of 30%		14%	
		In addition to the recycled content of the material above, the honeycomb / vertical core of powder coated toilet partitions, stainless steel toilet partitions and lockers contains 9% post-consumer and 9% pre-consumer recycled content.						
Regional Materials	MR Credit 5 (2 possible points)	Product Weight Distribution	92% Steel 8% Honeycomb	92% Steel 8% Vertical	N/A		99% Steel 1% Honeycomb	
		Manufacturing / final assembly location Material extraction / harvest location	Burlington, ON	Burlington, ON	Mentor, OH	Material extraction / harvest locations are not available.		

¹ Post-consumer material is defined as waste material generated by households or by commercial, industrial and institutional facilities in their role as end-users of the product, which can no longer be used for its intended purpose.

² Pre-consumer material (also referred to as post-industrial material) is defined as material diverted from the waste stream during the manufacturing process. Reutilization of materials (i.e., rework, regrind or scrap generated in a process and capable of being reclaimed within the same process that generated it) is excluded.

VOLATILE ORGANIC COMPOUNDS (VOCs)

Hadrian's powder coated paints do not contain volatile organic compounds (VOCs) and our powder coating process utilizes environmentally friendly technology as there is virtually no waste, energy consumption is low and there are no solvent emissions.

UREA FORMALDEHYDE

Hadrian products do not contain urea formaldehyde.

Hadrian's packaging materials (hardware boxes and locker end-caps) are made from 100% recycled material and our triple-ply, corrugated shipping container (USA) is 100% recyclable.



DURALINE

Series: 1085

Type: Screen Wall Hung

Layout: Urinal Screen

2 Of 5

COLOR SELECTION

- 949-58-White
- 949-58-White
- 949-58-White

DISTRIBUTOR 22092 - ALLMAR-BELCAM

QUOTE#/S.O.# 144334/280371

P.O.# PQ0173178

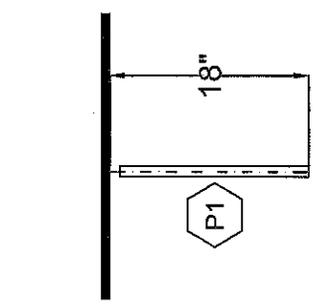
DATE 2/6/2017

JOB NAME NRC M2 & M59
ROOM SCREENS FOR URINALS

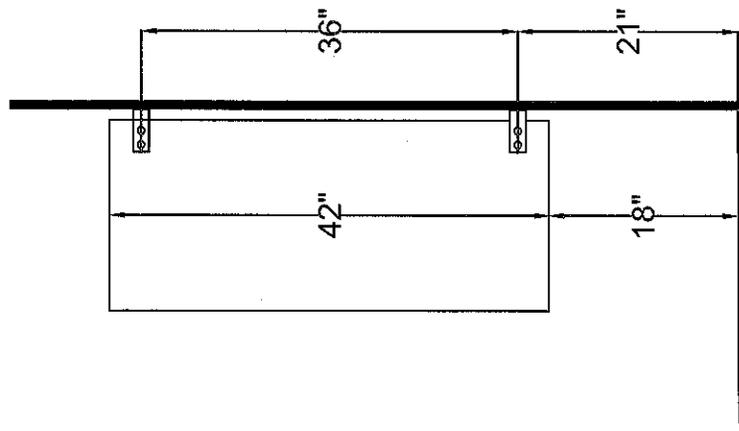
Note: Dimensions are in inches

Toilet partition and urinal screen layout drawings are the sole, confidential and proprietary property of Bobrick Washroom Equipment, Inc. The layout drawings are custom designed and prepared exclusively for the quotation and manufacture of Bobrick toilet partitions and urinal screens for the distributor and job name stated on the layout. Reproduction or distribution of the layout drawings to other toilet partition manufacturers or other persons without the prior written permission of Bobrick Washroom Equipment is strictly prohibited.

FLOOR CLEARANCE 18



PLAN VIEW



SIDE VIEW

MAKE 5 UNITS THUS

- (S) STILE
- (W) WALLPOST
- (D) DOOR
- (P) PANEL
- (H) HEADRAIL
- (B) BENCH

1. O.A.=OVERALL GAP, 1/2" FROM WALL TO PANEL PLUS 1/4" PANEL TO STILE NOTES FOR INSTALLER, UNLESS OTHERWISE SPECIFIED

EACH DRAWING MUST BE SIGNED APPROVED BEFORE FABRICATION CAN BEGIN. FABRICATION WILL BE FROM FINAL APPROVED DRAWINGS ONLY. PLEASE REVIEW CAREFULLY BEFORE SIGNING APPROVED.

APPROVED

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

**DESIGNATED SUBSTANCES SURVEY
BUILDING M-02
OTTAWA, ONTARIO**



Prepared by:



Distribution:
2 copies - National Research Council Canada
1 copy - Oakhill Environmental

March 2007

PR-06-039



EXECUTIVE SUMMARY

Oakhill Environmental (Oakhill) was retained by National Research Council Canada (NRC) to conduct a designated substances survey within Building M-02 in Ottawa, Ontario. All site work was completed from February 5th thru to February 9th, 2007.

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 Recommendations

Issue	Comments	Recommendations
Asbestos	Rm. Sub-basement lower level (FS# SB01)	
	Damaged aircell pipe insulation (3 LM) was identified on the hot water heating system.	Encapsulate 3 LM of damaged aircell pipe insulation.
	ACM debris (aircell) was identified on top of the steam line. (0.5 LM)	Clean up 0.5 LM of ACM debris
	Rm. Sub-basement upper level (FS#B001)	
	Damaged mud joint compound fitting (1 unit) was identified on the condensate system.	Encapsulate the damaged fitting on the condensate system.
	Damaged mud joint compound fitting (1 unit) was identified on the chiller system.	Encapsulate the damaged fitting on the chiller system.
	Rm. B43 (FS#B002)	
	Damaged Sweat wrap (with tar and white paper layer) pipe insulation (0.1LM) on the domestic cold water system.	Encapsulate 0.2 LM of damaged Sweat wrap (with tar and white paper layer) pipe insulation.
	Rm. B56 (FS#B007)	
	Damaged aircell pipe insulation (0.2 LM) on the domestic cold water system.	Encapsulate 0.2 LM of damaged aircell pipe insulation.
	Damaged aircell pipe insulation (0.2 LM) on the domestic hot water system.	Encapsulate 0.2 LM of damaged aircell pipe insulation.



Issue	Comments	Recommendations
Rm.145 (F.S.#1002)		
	Damaged mud joint compound fitting (1 unit) was identified on the hot water heating system.	Encapsulate the damaged fitting on the hot water heating system.
	Damaged sweat wrap (with tar and white paper layer) pipe insulation (0.1LM) on the domestic cold water system.	Encapsulate 0.1 LM of damaged Sweat wrap (with tar and white paper layer) pipe insulation on the domestic cold water system.
Rm.123 (F.S.#1017)		
	Damaged aircell pipe insulation in four areas (totalling 0.4 LM) was identified on the hot water heating system.	Encapsulate the 4 damaged areas of aircell pipe insulation on the hot water heating system.
Rm. 125, 125A, 127 (F.S.#1018)		
	Damaged aircell pipe insulation in four areas (totalling 2 LM) was identified on the hot water heating system.	Encapsulate the 4 damaged areas of aircell pipe insulation on the hot water heating system.
	Damaged mud joint compound fitting (1 unit) was identified on the hot water heating system.	Encapsulate the damaged fitting on the hot water heating system.
Rm. 134, 134A (F.S.#1020)		
	Damaged mud joint compound fitting (1 unit) was identified on the hot water heating system.	Encapsulate the damaged fitting on the hot water heating system.
Rm. 132 (F.S.#1021)		
	Damaged mud joint compound fitting (1 unit) was identified on the hot water heating system.	Encapsulate the damaged fitting on the hot water heating system.
Rm. 270 (F.S.#2001)		
	Damaged mud joint compound fitting (1 unit) was identified on the hot water heating system.	Encapsulate the damaged fitting on the hot water heating system.
Lead	Six paint samples were submitted for lead analysis. Lead was detected in all of the samples submitted. However, only two of the paint samples submitted were found to contain significant levels of lead (i.e., equal to or greater than 5000 ppm). The red paint sampled was found in	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.



Issue	Comments	Recommendations
	<p>Rm.270 (F.S.#2001) had a reading of 51,900 ppm. The yellow paint sampled was found in Rm.270 (F.S. # 2001) had a reading of 37,300 ppm. Lead may also be present in the solder used on copper domestic water lines, as caulking in bell fittings for cast iron drainage pipes, in glazing on the ceramic tiles and in electrical equipment, wiring or fixtures.</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 0.15 mg/m³ as prescribed by the OHSA.</p>
Mercury	<p>Mercury vapour may be present in fluorescent light tubes and thermostats. Mercury may also be present in paints and adhesives.</p>	<p>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.</p>
Silica	<p>Silica may be present in concrete, cement mortar and non-fibreglass acoustic ceiling tiles.</p>	<p>Ensure workers performing demolition work are not exposed to airborne silica levels in excess of 0.20 mg/m³ by providing respiratory protection, and/or wetting down work area, and providing workers with a facility to properly wash prior to exiting the work area as prescribed by O.Reg.845/90.</p>
Mould	<p>Mould is suspected to be present in functional space #1029 (room 151) on the ceiling tile.</p>	<p>Recommend that initially, bulk fungal analysis be performed to the species level. Once the hazard can be qualified, the mouldy insulation can be removed and the source of the moisture can be mitigated.</p>

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



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1.0 INTRODUCTION

Oakhill Environmental (Oakhill) was retained by the National Research Council Canada (NRC) to perform a survey for Designated Substances and mould of Building M-02 in Ottawa, Ontario. Building M-02 was surveyed February 5th thru to February 9th, 2007

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 three 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:

Acrylonitrile	O. Reg. 835/90 as amended by O. Reg. 101/04
Arsenic	O. Reg. 836/90 as amended by O. Reg. 102/04
Asbestos	O. Reg. 278/05 and O. Reg. 347/90
Benzene	O. Reg. 839/90 as amended by O. Reg. 105/04
Ethylene Oxide	O. Reg. 841/90 as amended by O. Reg. 107/04
Isocyanates	O. Reg. 842/90 as amended by O. Reg. 108/04
Lead	O. Reg. 843/90 as amended by O. Reg. 109/04
Mercury	O. Reg. 844/90 as amended by O. Reg. 110/04 and the MOL guideline
Silica	O. Reg. 845/90 as amended by O. Reg. 111/04
Vinyl Chloride	O. Reg. 846/90 as amended by O. Reg. 112/04

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 0.01 fibres/m³ of asbestos in air, 0.15 mg/m³ of lead in air, 4.3 mg/m³ of acrylonitrile in air, 0.2 mg/m³ of arsenic in air, 3.0 mg/m³ of benzene in air and 0.2 mg/m³ 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 clean up 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/cm²) 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 ACMs were approximations only, not actual measurements were taken. Square metres or lineal metres were generally used for quantifying ACM. All ACMs 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. Kevin Christian, M.Sc., P.Geo.	QA Reviewer
Mr. Bill McGovern	Environmental Analyst
Mr. Raivo Tahiste	Environmental Analyst
Mr. Gino Barillaro	Environmental Analyst
Mr. Sean Bagnulo	Environmental Analyst
Ms. Tanya Fiocca	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 D.

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-02 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-02 is shown in Table 2.



Table 2 – Homogeneous Materials List

Hom. Mat. #	Material Description	Asbestos Type & Conc.	Sample No.
01	12"x12" Floor Tile (off white with grey streaks)	N/D	M02-01
02	12"x12" Floor Tile (off white with blue streak.)	N/D	M02-02
03	12"x12" Floor Tile (beige with brown stripes)	N/D	M02-03
04	12"x12" Floor Tile (grey with brown stripes)	2% Chrysotile	M02-04
05	12"x12" Tile (uniform hole pattern)	<0.5 %	M02-05
06	Mud Joint Compound Fitting Insulation	20% Chrysotile	M02-06
07	Aircell Pipe Insulation	30% Chrysotile	M02-07
08	Plaster	N/D	M02-08
09	Pipe Wrap (heavy gauge jacketing)	15% Chrysotile	M02-09
10	Mag Block Pipe Insulation	27% Chrysotile	M02-10
11	Transite Wall Panel	45% Chrysotile	M02-11
12	Sweat Wrap (with tar and white paper layer) Pipe Insulation	15% Chrysotile	M02-12
13	Insulation Board (brown)	N/D	M02-13
14	2'x4' Ceiling Tile (deep divot pattern)	N/D	M02-14
15	12"x12" Floor Tile (beige with brown streaks)	<0.5	M02-15
16	12"x12" Floor Tile (beige with brown spots)	N/D	M02-16
17	2'x4' Ceiling Tile (scattered divot pattern)	N/D	M02-17
18	9"x 9" Floor Tile (green/dark green / white)	1% Chrysotile	M02-18/21/22
19	Linoleum (gold)	N/D	M02-19
20	2'x4' Ceiling Tile (scattered small divot pattern)	N/D	M02-20
21	Linoleum (brown)	N/D	M02- 23
22	2'x4' Ceiling Tile (scattered dot & divot pattern)	N/D	M02-24

Homo. Mat. # – Homogeneous Material Number Conc. – Concentration ND – Not Detected

5.1.1 Survey Findings

Suspect ACM building materials on the ceilings, floors, walls, mechanical, and structural systems were sampled throughout the facility. Of the twenty-two building materials that were sampled and compiled into the homogeneous list, eight were found to contain asbestos.

The eight building materials that contain asbestos are as follows:

- 1) Aircell pipe insulation was found on the domestic hot and cold water, hot water heating, condensate, steam and fire water systems.
- 2) Mud joint compound fitting insulation was found on the domestic hot and cold water, chiller, hot water heating, condensate, steam and fire water systems.



- 3) Mag Block pipe insulation was found on the steam system in the sub-basement, upper level (functional space # B001)
- 4) Sweat wrap (with tar and white paper layers) pipe insulation was found on the domestic cold water system.
- 5) Transite was panel was found on the walls in room B43, basement level (functional space # B002).
- 6) Pipe wrap (heavy gauge) was found on the chiller system in the sub-basement, lower level (functional space # SB01)
- 7) 9" x 9" floor tile (various colours) was found in several locations throughout the building.
- 8) 12" x 12" floor tile (grey with brown stripes) was found in rooms 128 (functional space # 1022) and 151A (functional space # 1029) of the first floor.

Table 3 provides a summary of all asbestos-containing materials by room. This table can be cross-referenced with the functional space forms in Appendix B to find a complete description of the room where ACM materials were encountered.

Table 3 – Summary of ACM by Room Listing

Functional Space ID#	Location	Homo. Mat. No.	Material Description and Quantity	Response Measure
<i>Sub-Basement</i>				
SB01	Sub-basement (lower level)	06	Mud joint compound fitting insulation on the chiller system – 4 units	O&M
		07	Aircell pipe insulation on the steam system – 53 LM	O&M
		07	Aircell pipe insulation on the hot water heat system – 3 LM	1 Encap.
		06	Mud joint compound fitting insulation on the steam system – 8 units	O&M
		06	Mud joint compound fitting insulation on the hot water heat system – 8 units	O&M
		07	ACM debris (Aircell found on top of the steam line) – 0.5 LM	Clean up
		09	Pipe wrap on the chiller system – 10 LM	O&M
		06	Mud joint compound fitting insulation on the condensate system – 10 units	O&M
		07	Aircell pipe insulation on the hot water heat system – 55 LM	O&M
<i>Basement</i>				
B001	Sub-basement (upper level)	07	Aircell pipe insulation on the low pressure steam system – 26 LM	O&M
		06	Mud joint compound fitting insulation on the low pressure steam system – 28 units	O&M
		10	Mag Block pipe insulation on the low pressure steam system – 1.5 LM	O&M
		06	Mud joint compound fitting insulation on the hot water heat system – 43 units	O&M
		07	Aircell pipe insulation on the hot water heat system – 7 LM	O&M
		07	Aircell pipe insulation on the condensate system – 11 LM	O&M
		06	Mud joint compound fitting insulation on the condensate system – 16 units	O&M



Functional Space ID#	Location	Homo. Mat. No.	Material Description and Quantity	Response Measure
		06	Mud joint compound fitting insulation on the condensate system – 1 unit	1 Encap.
		06	Mud joint compound fitting insulation on the chiller system – 1 unit	1 Encap.
B002	Rm. B43	11	Transite wall panel – 30 m ²	O&M
		12	Sweat wrap (with tar and white paper layer) pipe insulation on the domestic cold water system – 5 LM	O&M
		12	Sweat wrap (with tar and white paper layer) pipe insulation on the domestic cold water system – 0.2 LM	1 Encap.
		06	Mud joint compound fitting insulation on the domestic cold water system – 11 units	O&M
		06	Mud joint compound fitting insulation on the hot water heat system – 12 units	O&M
				07
B007	Rm. B56	07	Aircell pipe insulation on the domestic hot water system – 0.2 LM	1 Encap.
		07	Aircell pipe insulation on the domestic cold water system – 8 LM	O&M
		07	Aircell pipe insulation on the domestic cold water system – 8 LM	O&M
		06	Mud joint compound fitting insulation on the domestic hot water system – 1 units	O&M
		06	Mud joint compound fitting insulation on the domestic cold water system – 15 units	O&M
		B009	Rm. 004, 001	18
B010	Rm. 002	07	Aircell pipe insulation on the fire system – 1 LM	O&M
		06	Mud joint compound fitting insulation on the fire system – 1 LM	O&M
B011	Rm. 003	07	Aircell pipe insulation on the domestic cold water system – 4 LM	O&M
		06	Mud joint compound fitting insulation on the domestic cold water system – 2 units	O&M
		07	Aircell pipe insulation on the hot water heat system – 8 LM	O&M
B012	Rm. 005	18	9”x 9” floor tile (red)-- 15m ²	O&M
<i>First Floor</i>				
1002	Rm. 145	06	Mud joint compound fitting insulation on the hot water heat system – 22 units	O&M
		06	Mud joint compound fitting insulation on the domestic cold water system – 13 units	O&M
		06	Mud joint compound fitting insulation on the hot water heat system – 1unit	1 Encap.
		12	Sweat wrap (with tar and white paper layer) pipe insulation on the domestic cold water system – 6 LM	O&M
		12	Sweat wrap (with tar and white paper layer) pipe insulation on the domestic cold water system – 0.1 LM	1 Encap.
1005	Rm. 140	06	Mud joint compound fitting insulation on the hot water heat system – 4 units	O&M
		07	Aircell pipe insulation on the hot water heat system – 4 LM	O&M
1006	Rm. 141	06	Mud joint compound fitting insulation on the hot water heat system – 15 units	O&M
1007	Rm. 152	06	Mud joint compound fitting insulation on the hot water heat system – 7 units	O&M
1009	Rm. 148, 148A	06	Mud joint compound fitting insulation on the hot water heat system – 7 units	O&M



Functional Space ID#	Location	Homo. Mat. No.	Material Description and Quantity	Response Measure
1010	Rm. 147, 147A	06	Mud joint compound fitting insulation on the hot water heat system – 40 units	O&M
		07	Aircell pipe insulation on the hot water heat system – 13 LM	O&M
1011	Rm. 113	18	9”x 9” floor tile (dark grey)-- 38m ²	O&M
		06	Mud joint compound fitting insulation on the chiller system – 22 units	O&M
		06	Mud joint compound fitting insulation on the hot water heat system – 6 units	O&M
		07	Aircell pipe insulation on the hot water heat system – 11 LM	O&M
1012	Rm. 115	18	9”x 9” floor tile (grey)-- 14m ²	O&M
1014	Rm. 117	18	9”x 9” floor tile (green)-- 14m ²	O&M
1015	Rm. 119	18	9”x 9” floor tile (brown)-- 38m ²	O&M
		07	Aircell pipe insulation on the hot water heat system – 9 LM	O&M
		06	Mud joint compound fitting insulation on the hot water heat system – 6 units	O&M
1016	Rm. 121	07	Aircell pipe insulation on the hot water heat system – 16 LM	O&M
		06	Mud joint compound fitting insulation on the hot water heat system – 16 units	O&M
1017	Rm.123	07	Aircell pipe insulation on the hot water heat system – 18 LM	O&M
		06	Mud joint compound fitting insulation on the hot water heat system – 16 units	O&M
		07	Aircell pipe insulation on the hot water heat system – 0.4 LM	4 Encaps.
1018	Rm. 125, 125A, 127	07	Aircell pipe insulation on the hot water heat system – 3 units	O&M
		07	Aircell pipe insulation on the hot water heat system – 2 LM	4 Encaps
		06	Mud joint compound fitting insulation on the hot water heat system – 29 LM	O&M
		06	Mud joint compound fitting insulation on the hot water heat system – 1 LM	1 Encap.
		18	9”x 9” floor tile (white & green)-- 170m ²	O&M
1019	Rm.129, 129A, 129B, 129C, 135A, 135B, 135C	07	Aircell pipe insulation on the hot water heat system – 40 LM	O&M
		06	Mud joint compound fitting insulation on the hot water heat system – 36 units	O&M
		07	Aircell pipe insulation on the domestic cold water system – 1 LM	O&M
		07	Aircell pipe insulation on the domestic hot water system – 1 LM	O&M
		06	Mud joint compound fitting insulation on the domestic cold water system – 2 units	O&M
		06	Mud joint compound fitting insulation on the domestic hot water system – 2 units	O&M
		07	Aircell pipe insulation on the hot water heat system – 9 LM	O&M
		07	Aircell pipe insulation on the domestic hot water system –14 LM	O&M
1020	Rm. 134, 134A	07	Aircell pipe insulation on the domestic cold water system – 20 LM	O&M
		07	Aircell pipe insulation on the hot water heat system – 30 LM	O&M
		06	Mud joint compound fitting insulation on the hot water heat system – 12 units	O&M
		06	Mud joint compound fitting insulation on the domestic cold water system – 6 units	O&M
		06	Mud joint compound fitting insulation on the hot water heat system – 5 units	O&M
		06	Mud joint compound fitting insulation on the hot water heat system – 1 unit	1 Encap.



Functional Space ID#	Location	Homo. Mat. No.	Material Description and Quantity	Response Measure
1021	Rm. 132	06	Mud joint compound fitting insulation on the hot water heat system – 20 units	O&M
		07	Aircell pipe insulation on the hot water heat system – 22 LM	O&M
		06	Mud joint compound fitting insulation on the hot water heat system – 1 unit	1 Encap.
1022	Rm. 128	04	12"x12" floor tile (grey with brown stripes) – 81m ²	O&M
		06	Mud joint compound fitting insulation on the hot water heat system – 24 units	O&M
		07	Aircell pipe insulation on the hot water heat system – 32 LM	O&M
		07	Aircell pipe insulation on the hot water heat system – 10 LM	O&M
1023	Rm. 126	07	Aircell pipe insulation on the hot water heat system – 16 LM	O&M
		06	Mud joint compound fitting insulation on the hot water heat system – 12 units	O&M
1029	Rm. 151A	04	12"x12" Floor Tile (grey with brown stripes) – 6m ²	O&M
		06	Mud joint compound fitting insulation on the hot water heat system – 4 units	O&M
1031	Rm. 133	18	9"x 9" floor tile (white)-- – 39m ²	O&M
<i>Second Floor</i>				
2001	Rm. 270	07	Aircell pipe insulation on the condensate system – 13 LM	O&M
		07	Aircell pipe insulation on the steam system – 13 LM	O&M
		06	Mud joint compound fitting insulation on the steam system – 1 unit	O&M
		06	Mud joint compound fitting insulation on the condensate system – 2 units	O&M
		06	Mud joint compound fitting insulation on the steam system – 1 unit	1 Encap.
2003	Rm. 274	18	9"x 9" floor tile (green)-- 19 m ²	O&M
2004	Rm. 276	18	9"x 9" floor tile (green)-- 20m ²	O&M
2013	Rm. 206	18	9"x 9" floor tile (green & black)-- 19m ²	O&M

LM – linear metre O&M – Operations & Maintenance Encap. – Encapsulation Homo. – Homogeneous Mat. - Materials

Asbestos was detected in eight 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.





Sweat Wrap (with tar and 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, a tar paper layer 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.



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).





5.1.3 Non-Friable ACM

Transite Panel

A representative photograph of transite panel. Transite is a composite material made up of asbestos and cement that was a manufactured product at the time of installation. It was generally used in areas as a fire retardant. It is a rigid material that fractures when broken and may appear as other types of non-acm panel.



Pipe Jacketing (heavy gauge)

A representative photograph of heavy gauge pipe jacketing over the (fibreglass) pipe insulation. This material is a sturdy, woven cloth like material that is used as pipe insulation exterior jacketing.





12”x12” Floor Tile (grey with brown stripes) A representative photograph of 12” x 12” vinyl asbestos floor tile (VAT). This material may be found in any number of different colours and patterns. VAT’s are normally quite rigid and non-friable. They are sometimes found under carpeting.



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 quite rigid and non-friable. They are sometimes found under carpeting.



5.1.4 Survey Recommendations

Under Ontario Regulation (O. Reg.) 278/05 damaged and exposed ACMs are required to be repaired or removed. In building M-02, the damaged/exposed 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 ten paint finishes. Samples were collected from the painted interior surfaces of building M-02 and were 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*
M02-L1	Rm.141 (F.S.#1006)	Grey	4790 ppm	No
M02-L2	Rm.152 (F.S.#1007)	Pale Blue	27.9 ppm	No
M02-L3	Rm.149 (F.S.#1030)	White	2470 ppm	No
M02-L4	Rm. Sub Basement (F.S.#SB01)	Silver	2760 ppm	No
M02-L5	Rm.270 (F.S.#2001)	Red	51,900 ppm	Yes
M02-L6	Rm.270 (F.S.#2001)	Yellow	37,300 ppm	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, two of the six paints sampled contain greater than 5,000 ppm lead and are therefore classified as lead-based paints.

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 0.15 mg/m³. 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 843/90 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 0.15 milligram per cubic metre (mg/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 844/90. During demolition, ensure that the maximum concentration of exposure to airborne mercury does not exceed $0.03 \text{ mg Hg}/\text{m}^3$ 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;
- Terra cotta and 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 0.20 mg/m³ 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 (3.0 mg/m^3). 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 (0.2 mg/m^3). To minimize potential arsenic exposure, apply paints and adhesives in well-ventilated areas.

5.11 Ethylene Oxide

5.11.1 Survey Findings

At the time of the site inspection, no evidence of ethylene oxide was noted in the survey.

5.12 Mould

5.12.1 Survey Findings

At the time of the site inspection, evidence of mould was noted on the ceiling tile in functional space #1029 room #151A.



5.12.2 Survey Recommendations

Oakhill recommends that fungal laboratory sampling be added to the scope of work for this project in the next fiscal year. It is important to identify the type of mould fungus present and mould growth.

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 February 5th thru to February 9th, 2007. 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.

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

APPENDIX A

DESIGNATED SUBSTANCES BACKGROUND INFORMATION

Acrylonitrile

Acrylonitrile is regulated in Ontario under Regulation 835/90 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 (4.3 mg/m³).

Arsenic

Arsenic is regulated in Ontario under Regulation 836/90 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 (0.2 mg/m³). 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) ACMs 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 to asbestos depends on the type of asbestos, they include, amosite (0.1 f/cc), crocidolite (0.1 f/cc) and other forms of asbestos (1.0 f/cc). 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 839/90 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 3 mg/m^3 . 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 841/90 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^3 . 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 842/90 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 (-NCO) 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 843/90 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 0.15 milligram per cubic metre (mg/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° C, as in welding and flame cutting or burning.

Mercury

Mercury is regulated in Ontario under Regulation 844/90 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 0.05 mg/m³.

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 845/90 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 0.20 mg/m³.

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 0.20 milligrams per cubic metre (mg/m³) 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 846/90 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 5.2 mg/m³.

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



Certificate of Analysis

AGAT WORK ORDER: 07T211051

PROJECT NO: PR-06-039

CLIENT NAME: OAKHILL ENVIRONMENTAL

ATTENTION TO: Fil Barillo

Bulk Asbestos

DATE SAMPLED: February 06 2007

DATE RECEIVED: February 20 2007

DATE REPORTED: February 28 2007

SAMPLE TYPE: Other

	Unit	G / S	M.D.L	M02-01A 657902	M02-01B 657903	M02-01C 657904	M02-02A 657905	M02-02B 657906	M02-02C 657907	M02-03A 657908	M02-03B 657909
Asbestos	%		0.5	ND							
	Unit	G / S	M.D.L	M02-03C 657910	M02-04A 657911	M02-05A 657914	M02-05B 657915	M02-05C 657916	M02-06 657917	M02-07 657918	M02-08A 657919
Asbestos	%		0.5	ND	2	<0.5	<0.5	<0.5	20	30	ND
	Unit	G / S	M.D.L	M02-08B 657920	M02-08C 657921	M02-08D 657922	M02-08E 657923	M02-08F 657924	M02-08G 657925	M02-09A 657926	M02-10 657929
Asbestos	%		0.5	ND	ND	ND	ND	ND	ND	15	27
	Unit	G / S	M.D.L	M02-11 657930	M02-12A 657931	M02-13A 657934	M02-13B 657935	M02-13C 657936	M02-14A 657937	M02-14B 657938	M02-14C 657939
Asbestos	%		0.5	45	15	ND	ND	ND	ND	ND	ND
	Unit	G / S	M.D.L	M02-15A 657940	M02-15B 657941	M02-15C 657942	M02-16A 657943	M02-16B 657944	M02-16C 657945	M02-17A 657946	M02-17B 657947
Asbestos	%		0.5	<0.5	<0.5	<0.5	ND	ND	ND	ND	ND
	Unit	G / S	M.D.L	M02-17C 657948	M02-18A 657949	M02-19A 657952	M02-19B 657953	M02-19C 657954	M02-20A 657955	M02-20B 657956	M02-20C 657957
Asbestos	%		0.5	ND	1	ND	ND	ND	ND	ND	ND
	Unit	G / S	M.D.L	M02-21A 657958	M02-21B 657959	M02-21C 657960	M02-22A 657961	M02-22B 657962	M02-22C 657963	M02-23A 657964	M02-23B 657965
Asbestos	%		0.5	ND							
	Unit	G / S	M.D.L	M02-23C 657966	M02-24A 657967	M02-24B 657968	M02-24C 657969				
Asbestos	%		0.5	ND	ND	ND	ND				

Certified By: _____



Certificate of Analysis

AGAT WORK ORDER: 07T211051

PROJECT NO: PR-06-039

CLIENT NAME: OAKHILL ENVIRONMENTAL

ATTENTION TO: Fil Barillo

Bulk Asbestos

DATE SAMPLED: February 06 2007

DATE RECEIVED: February 20 2007

DATE REPORTED: February 28 2007

SAMPLE TYPE: Other

Comments: M.D.L - Method Detection Limit; G / S - Guideline / Standard

657902 Condition of sample was satisfactory at time of arrival in laboratory.
"ND" - Not Detected

657903 Condition of sample was satisfactory at time of arrival in laboratory.
"ND" - Not Detected

657904 Condition of sample was satisfactory at time of arrival in laboratory.
"ND" - Not Detected

657905 Condition of sample was satisfactory at time of arrival in laboratory.
"ND" - Not Detected

657906 Condition of sample was satisfactory at time of arrival in laboratory.
"ND" - Not Detected

657907 Condition of sample was satisfactory at time of arrival in laboratory.
"ND" - Not Detected

657908 Condition of sample was satisfactory at time of arrival in laboratory.
"ND" - Not Detected

657909 Condition of sample was satisfactory at time of arrival in laboratory.
"ND" - Not Detected

657910 Condition of sample was satisfactory at time of arrival in laboratory.
"ND" - Not Detected

657911 Condition of sample was satisfactory at time of arrival in laboratory.
"ND" - Not Detected

657914 Asbestos containing: chrysotile
Condition of sample was satisfactory at time of arrival in laboratory.

657915 A reported concentration of "<0.5%" indicates the presence of confirmed asbestos in trace quantities less than the MDL.
Condition of sample was satisfactory at time of arrival in laboratory.

657916 A reported concentration of "<0.5%" indicates the presence of confirmed asbestos in trace quantities less than the MDL.
Condition of sample was satisfactory at time of arrival in laboratory.

657917 A reported concentration of "<0.5%" indicates the presence of confirmed asbestos in trace quantities less than the MDL.
Condition of sample was satisfactory at time of arrival in laboratory.

Certified By: _____



Certificate of Analysis

AGAT WORK ORDER: 07T211051

PROJECT NO: PR-06-039

CLIENT NAME: OAKHILL ENVIRONMENTAL

ATTENTION TO: Fil Barillo

Bulk Asbestos			
DATE SAMPLED: February 06 2007	DATE RECEIVED: February 20 2007	DATE REPORTED: February 28 2007	SAMPLE TYPE: Other

- 657918 Asbestos containing: chrysotile
Condition of sample was satisfactory at time of arrival in laboratory.
- 657919 Asbestos containing: chrysotile
Condition of sample was satisfactory at time of arrival in laboratory.
- 657920 "ND" - Not Detected
Condition of sample was satisfactory at time of arrival in laboratory.
- 657921 "ND" - Not Detected
Condition of sample was satisfactory at time of arrival in laboratory.
- 657922 "ND" - Not Detected
Condition of sample was satisfactory at time of arrival in laboratory.
- 657923 "ND" - Not Detected
Condition of sample was satisfactory at time of arrival in laboratory.
- 657924 "ND" - Not Detected
Condition of sample was satisfactory at time of arrival in laboratory.
- 657925 "ND" - Not Detected
Condition of sample was satisfactory at time of arrival in laboratory.
- 657926 "ND" - Not Detected
Condition of sample was satisfactory at time of arrival in laboratory.
- 657929 Asbestos containing: chrysotile
Condition of sample was satisfactory at time of arrival in laboratory.
- 657930 Asbestos containing: chrysotile (20%) and amosite (7%)
Condition of sample was satisfactory at time of arrival in laboratory.
- 657931 Asbestos containing: chrysotile
Condition of sample was satisfactory at time of arrival in laboratory.
- 657934 Asbestos containing: chrysotile
Condition of sample was satisfactory at time of arrival in laboratory.
- 657935 "ND" - Not Detected
Condition of sample was satisfactory at time of arrival in laboratory.

Certified By: _____



Certificate of Analysis

AGAT WORK ORDER: 07T211051

PROJECT NO: PR-06-039

CLIENT NAME: OAKHILL ENVIRONMENTAL

ATTENTION TO: Fil Barillo

Bulk Asbestos

DATE SAMPLED: February 06 2007

DATE RECEIVED: February 20 2007

DATE REPORTED: February 28 2007

SAMPLE TYPE: Other

- 657936 "ND" - Not Detected
Condition of sample was satisfactory at time of arrival in laboratory.
- 657937 "ND" - Not Detected
Condition of sample was satisfactory at time of arrival in laboratory.
- 657938 "ND" - Not Detected
Condition of sample was satisfactory at time of arrival in laboratory.
- 657939 "ND" - Not Detected
Condition of sample was satisfactory at time of arrival in laboratory.
- 657940 "ND" - Not Detected
Condition of sample was satisfactory at time of arrival in laboratory.
- 657941 A reported concentration of "<0.5%" indicates the presence of confirmed asbestos in trace quantities less than the MDL.
Condition of sample was satisfactory at time of arrival in laboratory.
- 657942 A reported concentration of "<0.5%" indicates the presence of confirmed asbestos in trace quantities less than the MDL.
Condition of sample was satisfactory at time of arrival in laboratory.
- 657943 A reported concentration of "<0.5%" indicates the presence of confirmed asbestos in trace quantities less than the MDL.
Condition of sample was satisfactory at time of arrival in laboratory.
- 657944 "ND" - Not Detected
Condition of sample was satisfactory at time of arrival in laboratory.
- 657945 "ND" - Not Detected
Condition of sample was satisfactory at time of arrival in laboratory.
- 657946 "ND" - Not Detected
Condition of sample was satisfactory at time of arrival in laboratory.
- 657947 "ND" - Not Detected
Condition of sample was satisfactory at time of arrival in laboratory.
- 657948 "ND" - Not Detected
Condition of sample was satisfactory at time of arrival in laboratory.
- 657949 "ND" - Not Detected
Condition of sample was satisfactory at time of arrival in laboratory.

Certified By: _____



Certificate of Analysis

AGAT WORK ORDER: 07T211051

PROJECT NO: PR-06-039

CLIENT NAME: OAKHILL ENVIRONMENTAL

ATTENTION TO: Fil Barillo

Bulk Asbestos

DATE SAMPLED: February 06 2007

DATE RECEIVED: February 20 2007

DATE REPORTED: February 28 2007

SAMPLE TYPE: Other

Asbestos containing: chrysotile

657952 Condition of sample was satisfactory at time of arrival in laboratory.

"ND" - Not Detected

657953 Condition of sample was satisfactory at time of arrival in laboratory.

"ND" - Not Detected

657954 Condition of sample was satisfactory at time of arrival in laboratory.

"ND" - Not Detected

657955 Condition of sample was satisfactory at time of arrival in laboratory.

"ND" - Not Detected

657956 Condition of sample was satisfactory at time of arrival in laboratory.

"ND" - Not Detected

657957 Condition of sample was satisfactory at time of arrival in laboratory.

"ND" - Not Detected

657958 Condition of sample was satisfactory at time of arrival in laboratory.

"ND" - Not Detected

657959 Condition of sample was satisfactory at time of arrival in laboratory.

"ND" - Not Detected

657960 Condition of sample was satisfactory at time of arrival in laboratory.

"ND" - Not Detected

657961 Condition of sample was satisfactory at time of arrival in laboratory.

"ND" - Not Detected

657962 Condition of sample was satisfactory at time of arrival in laboratory.

"ND" - Not Detected

657963 Condition of sample was satisfactory at time of arrival in laboratory.

"ND" - Not Detected

657964 Condition of sample was satisfactory at time of arrival in laboratory.

"ND" - Not Detected

657965 Condition of sample was satisfactory at time of arrival in laboratory.

Certified By: _____



Certificate of Analysis

AGAT WORK ORDER: 07T211051

PROJECT NO: PR-06-039

CLIENT NAME: OAKHILL ENVIRONMENTAL

ATTENTION TO: Fil Barillo

Bulk Asbestos

DATE SAMPLED: February 06 2007

DATE RECEIVED: February 20 2007

DATE REPORTED: February 28 2007

SAMPLE TYPE: Other

"ND" - Not Detected
657966 Condition of sample was satisfactory at time of arrival in laboratory.

"ND" - Not Detected
657967 Condition of sample was satisfactory at time of arrival in laboratory.

"ND" - Not Detected
657968 Condition of sample was satisfactory at time of arrival in laboratory.

"ND" - Not Detected
657969 Condition of sample was satisfactory at time of arrival in laboratory.

"ND" - Not Detected

Certified By: _____

APPENDIX C

ANALYTICAL RESULTS – LEAD



Certificate of Analysis

AGAT WORK ORDER: 07T211065
 PROJECT NO: PR-06-039

CLIENT NAME: OAKHILL ENVIRONMENTAL

ATTENTION TO: Fil Barillo

Lead in Paint

DATE SAMPLED: February 02 2007 DATE RECEIVED: February 20 2007 DATE REPORTED: February 27 2007 SAMPLE TYPE: Paint

	Unit	G / S	M.D.L	M02-L1 658061	M02-L2 658062	M02-L3 658063	M02-L4 658064	M02-L5 658065	M02-L6 658066
Lead	µg/g		7.0	4790	27.9	2470	2760	51900	37300

Comments: M.D.L - Method Detection Limit; G / S - Guideline / Standard

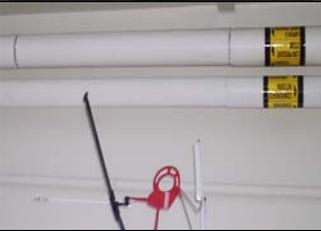
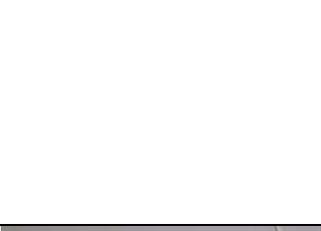
Certified By: Elizabeth Potokowska

APPENDIX D
PHOTOGRAPH LOGS

M02 ASBESTOS PHOTOGRAPH LOG

Photo #	Photograph	Functional Space #	Comments
01		SB01	Encapsulate 3 LM of damaged aircell pipe insulation on the hot water heat system.
02		SB01	Clean-up 0.5 LM of ACM debris on top of the steam line.
03		B001	Encapsulate the damaged mud joint compound fitting on the condensate system.
04		B001	Encapsulate the damaged mud joint compound fitting on the chiller system.
05		B002	Encapsulate 0.2 LM of damaged sweat wrap (with tar and white paper layer) pipe insulation on the domestic cold water system.
06		B007	Encapsulate 0.2 LM of damaged aircell pipe insulation on the domestic cold water system.

M02 ASBESTOS PHOTOGRAPH LOG

Photo #	Photograph	Functional Space #	Comments
07		B007	Encapsulate 0.2 LM of damaged aircell pipe insulation on the domestic cold hot system.
08		1002	Encapsulate the damaged mud joint compound fitting on the hot water heat system.
09		1002	Encapsulate 0.1 LM of damaged sweat wrap (with tar and white paper layer) pipe insulation on the domestic cold water system.
10		1017	2 encapsulations 0.2 LM of damaged aircell pipe insulation on the hot water heat system.
11		1017	2 encapsulations 0.2 LM of damaged aircell pipe insulation on the hot water heat system.
12		1018	2 encapsulations 1LM of damaged aircell pipe insulation on the hot water heat system.
13		1018	2 encapsulations 1LM of damaged aircell pipe insulation on the hot water heat system.

14				1018	Encapsulate the damaged mud joint compound fitting on the hot water heat system.
15				1020	Encapsulate the damaged mud joint compound fitting on the hot water heat system.
16				1021	Encapsulate the damaged mud joint compound fitting on the hot water heat system
17				2001	Encapsulate the damaged mud joint compound fitting on the steam system.

M-02 MOULD PHOTOGRAPH LOG

Photo #	Photograph		Function Space #	Comments
M01			F.S.#1029 (room 151)	Mould on ceiling tile.

M-02 LEAD PHOTOGRAPH LOG

Photo #	Photograph	Function Space #	Comments
M02-L5		Rm.270 (F.S.#2001)	51,900ppm
M02-L6		Rm.270 (F.S.#2001)	37,300ppm

APPENDIX E
FLOOR PLANS



LEGEND

- 1001 FUNCTIONAL SPACE #
 - ACM FITTING INSULATION: HW HEATING
 - ACM FITTING INSULATION: DOMESTIC HW
 - ACM FITTING INSULATION: DOMESTIC CW
 - ACM FITTING INSULATION: CHILLER
 - ACM FITTING INSULATION: CONDENSATE
 - ACM PIPE INSULATION: STEAM
 - ACM PIPE INSULATION: HW HEATING
 - ACM PIPE INSULATION: DOMESTIC CW
 - ACM PIPE INSULATION: DOMESTIC HW
 - ACM PIPE INSULATION: FIRE LINE
 - ACM TRANSITE WALL PANEL
 - ▨ ACM FITTING INSULATION: HIGH DENSITY JUNCTION
 - ▨ ACM FLOOR TILE
 - ▨ AREA NOT INSPECTED (INACCESSIBLE)
 - ▨ LIMITED ACCESS
 - ACM DEBRIS
- NOTES:**
 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: f's, valves, ends, hangers, etc.

CLIENT

NATIONAL RESEARCH COUNCIL CANADA
 ADMINISTRATIVE SERVICES
 AND PROPERTY MANAGEMENT
 BUILDING M-19
 1200 MONTREAL RD.
 OTTAWA, ON, K1A 0R6

PROJECT

DESIGNATED SUBSTANCES SURVEY
 BUILDING M-02

PROJECT NO.

PR-06-39

DATE

MARCH 2007

SCALE

NTS

TITLE

**-BASEMENT-
 ASBESTOS
 LOCATIONS**

SHEET

B-1





LEGEND

- 1001 FUNCTIONAL SPACE #
- SAMPLE LOCATION: NON-ACM
- SAMPLE LOCATION: ACM
- ▲ DAMAGED ACM LOCATION
- P# PHOTOGRAPH #
- ACM FITTING INSULATION: HW HEATING
- ACM FITTING INSULATION: DOMESTIC HW
- ACM FITTING INSULATION: DOMESTIC CW
- ACM FITTING INSULATION: CHILLER
- ACM FITTING INSULATION: CONDENSATE
- ACM PIPE INSULATION: STEAM
- ACM PIPE INSULATION: HW HEATING
- ACM PIPE INSULATION: DOMESTIC CW
- ACM PIPE INSULATION: DOMESTIC HW
- ACM PIPE INSULATION: FIRE LINE
- ACM TRANSITE WALL PANEL
- ACM FITTING INSULATION: HIGH DENSITY JUNCTION
- ACM FLOOR TILE
- AREA NOT INSPECTED (INACCESSIBLE)
- LIMITED ACCESS
- 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: 's, valves, ends, hangers, etc.

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PROJECT

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 BUILDING M-02

PROJECT NO.

PR-06-39

DATE

MARCH 2007

SCALE

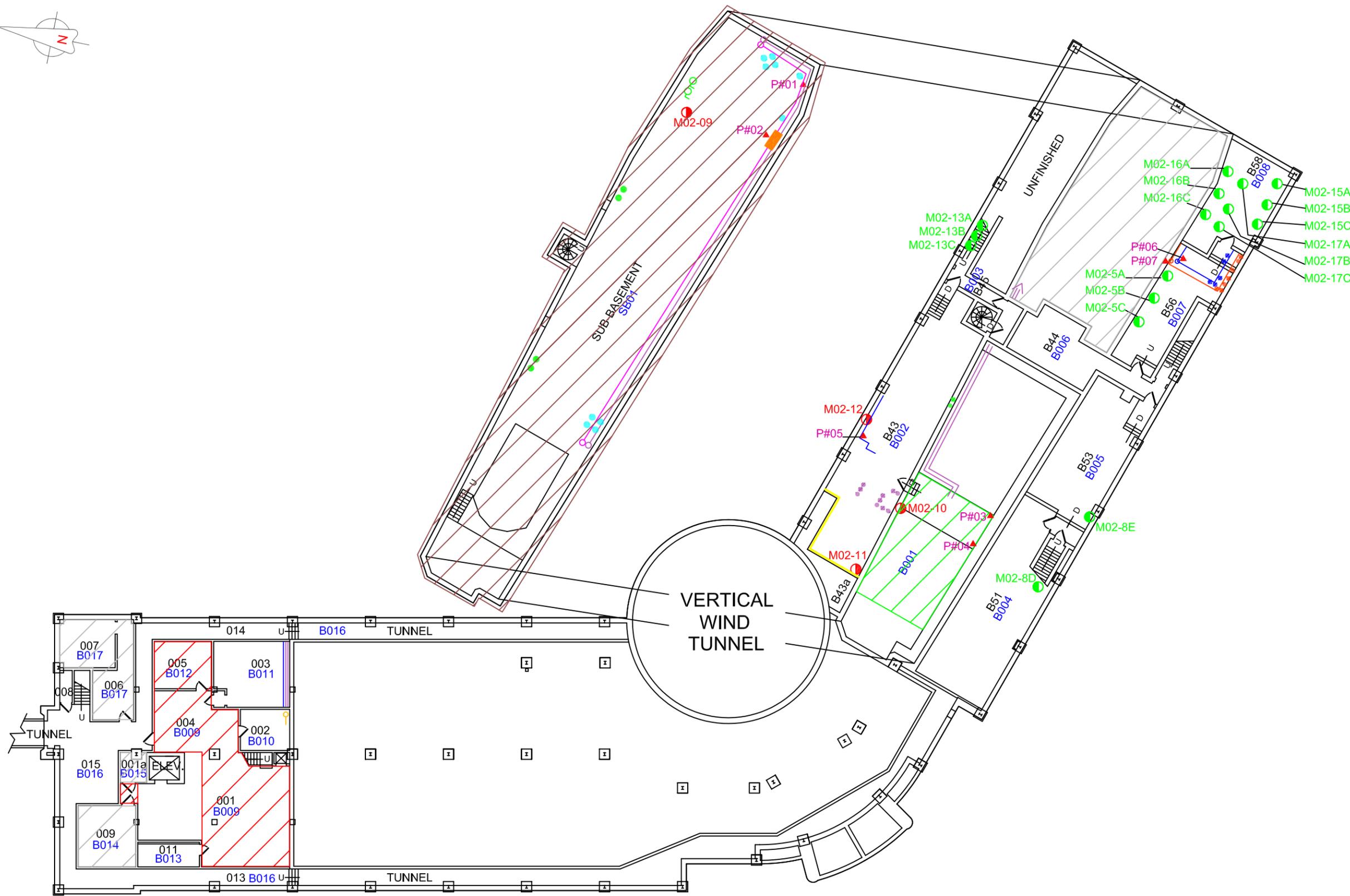
NTS

TITLE

**-BASEMENT-
 ASBESTOS
 SURVEY**

SHEET

B-2





LEGEND

 LEAD SAMPLE LOCATION (<5000 ppm)

CLIENT

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PROJECT

DESIGNATED SUBSTANCES SURVEY
BUILDING M-02

PROJECT NO.

PR-06-39

DATE

MARCH 2007

SCALE

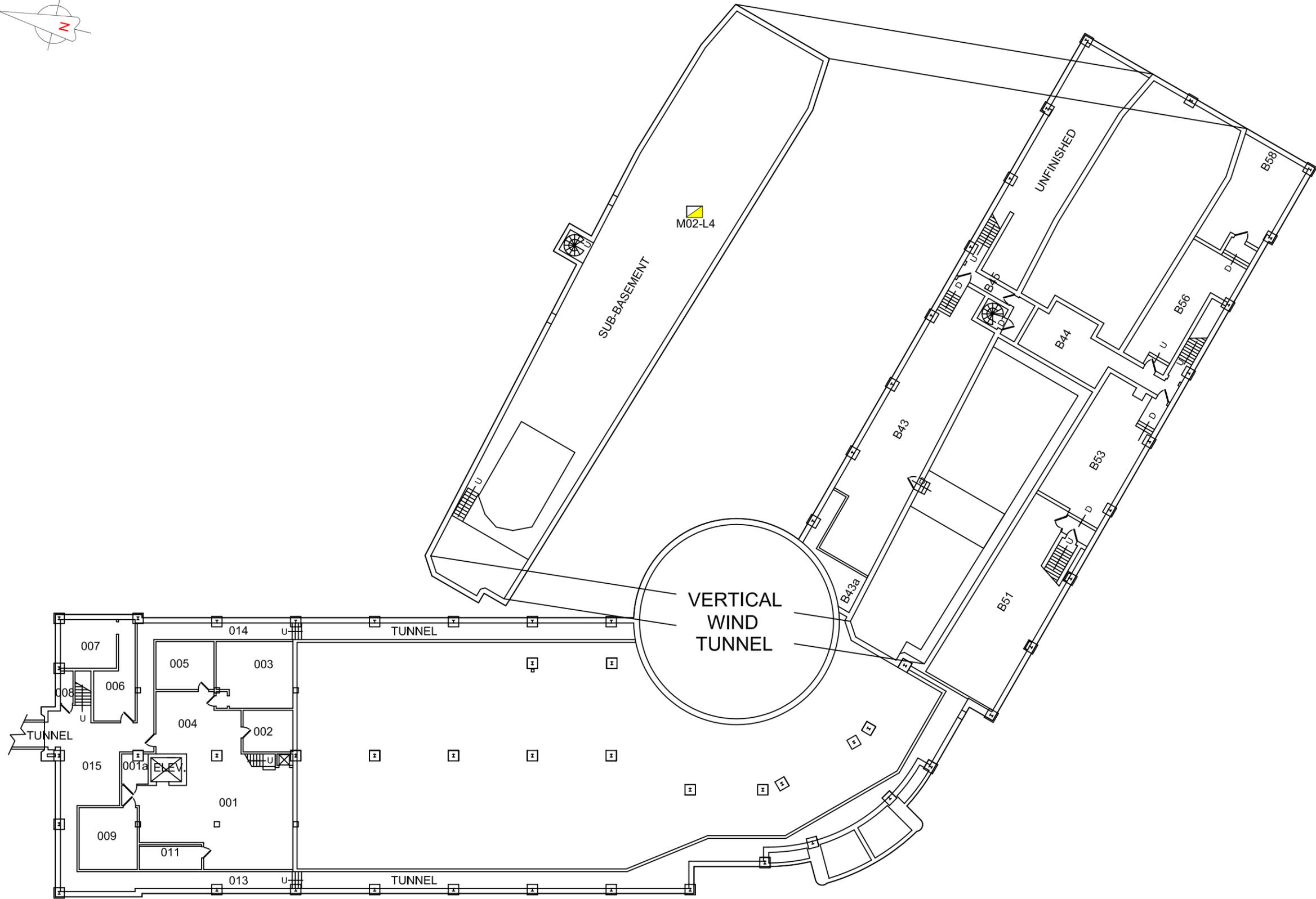
NTS

TITLE

**-BASEMENT-
LEAD SAMPLES**

SHEET

B-3





LEGEND

- 1001 FUNCTIONAL SPACE #
- ACM PIPE INSULATION: HW HEATING
- ACM PIPE INSULATION: DOMESTIC CW
- ACM PIPE INSULATION: DOMESTIC HW
- ACM FITTING INSULATION: HW HEATING
- ACM FITTING INSULATION: CHILLER
- ACM FITTING INSULATION: DOMESTIC CW
- ▨ ACM FLOOR TILE
- ▨ LIMITED ACCESS / NO ACCESS

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: t's, valves, ends, hangers, etc.

CLIENT

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1200 MONTREAL RD.
OTTAWA, ON, K1A 0R6

PROJECT

DESIGNATED SUBSTANCES SURVEY
BUILDING M-02

PROJECT NO.

PR-06-39

DATE

MARCH 2007

SCALE

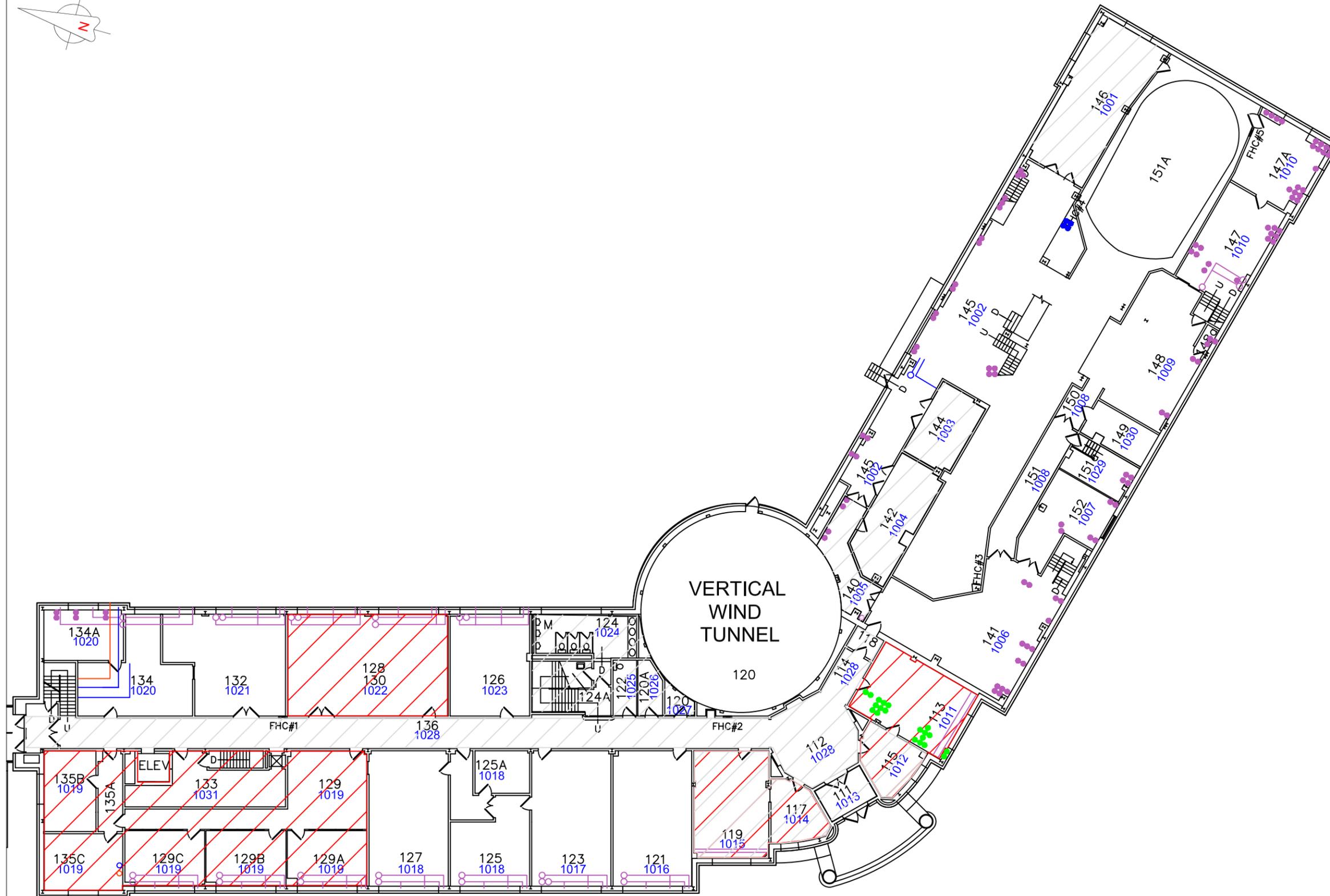
NTS

TITLE

**FIRST FLOOR
ASBESTOS
LOCATIONS**

SHEET

1-1





LEGEND

- 1001 FUNCTIONAL SPACE #
- SAMPLE LOCATION: NON-ACM
- SAMPLE LOCATION: ACM
- ▲ DAMAGED ACM LOCATION
- P# PHOTOGRAPH #
- ACM PIPE INSULATION: HW HEATING
- ACM PIPE INSULATION: DOMESTIC CW
- ACM PIPE INSULATION: DOMESTIC HW
- ACM FITTING INSULATION: HW HEATING
- ACM FITTING INSULATION: CHILLER
- ACM FITTING INSULATION: DOMESTIC CW
- ▨ ACM FLOOR TILE
- ▨ LIMITED ACCESS / NO ACCESS

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: t's, valves, ends, hangers, etc.

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BUILDING M-02

PROJECT NO.

PR-06-39

DATE

MARCH 2007

SCALE

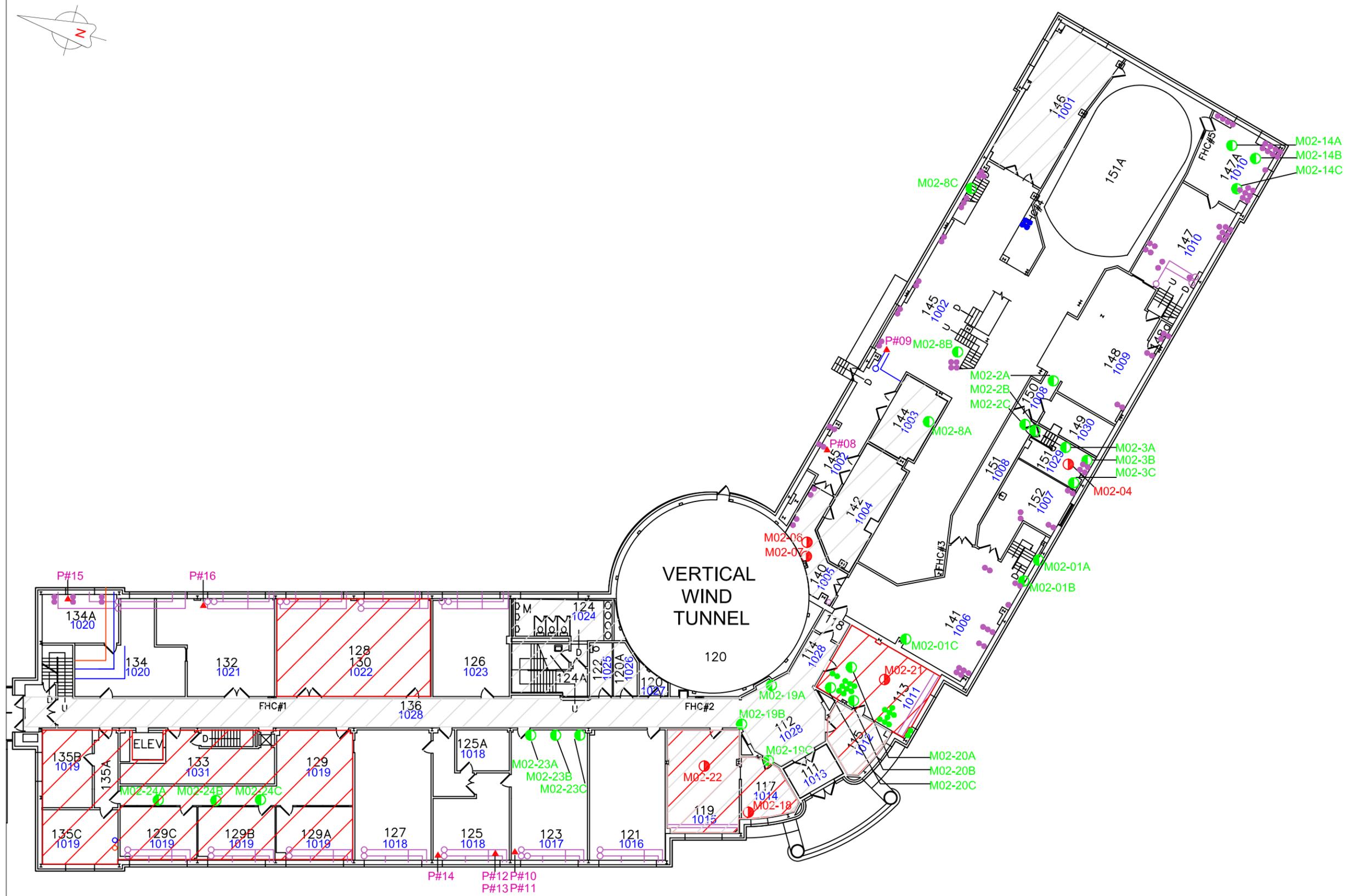
NTS

TITLE

**FIRST FLOOR
ASBESTOS
SURVEY**

SHEET

1-2





LEGEND

-  LEAD SAMPLE LOCATION (<5000 ppm)
-  MOULD LOCATION
-  PHOTOGRAPH #

CLIENT

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AND PROPERTY MANAGEMENT
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1200 MONTREAL RD.
OTTAWA, ON, K1A 0R6

PROJECT

DESIGNATED SUBSTANCES SURVEY
BUILDING M-02

PROJECT NO.

PR-06-39

DATE

MARCH 2007

SCALE

NTS

TITLE

FIRST FLOOR
LEAD SAMPLES
&
MOULD
LOCATIONS

SHEET

1-3





LEGEND

- 1001 FUNCTIONAL SPACE #
- SAMPLE LOCATION: NON-ACM
- ▲ DAMAGED ACM LOCATION
- P# PHOTOGRAPH #
- ACM PIPE INSULATION: STEAM
- ACM PIPE INSULATION: CONDENSATE
- ▨ ACM FLOOR TILE
- ▨ LIMITED ACCESS / NO ACCESS

CLIENT

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ADMINISTRATIVE SERVICES
AND PROPERTY MANAGEMENT
BUILDING M-19
1200 MONTREAL RD.
OTTAWA, ON, K1A 0R6

PROJECT

DESIGNATED SUBSTANCES SURVEY
BUILDING M-02

PROJECT NO.

PR-06-39

DATE

MARCH 2007

SCALE

NTS

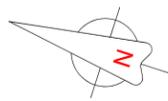
TITLE

**SECOND
FLOOR
ASBESTOS
SURVEYS**

SHEET

2-2





LEGEND

- LEAD SAMPLE LOCATION (>5000 ppm)
- PHOTOGRAPH #

CLIENT

NATIONAL RESEARCH COUNCIL CANADA
 ADMINISTRATIVE SERVICES
 AND PROPERTY MANAGEMENT
 BUILDING M-19
 1200 MONTREAL RD.
 OTTAWA, ON, K1A 0R6

PROJECT

DESIGNATED SUBSTANCES SURVEY
 BUILDING M-02

PROJECT NO.

PR-06-39

DATE

MARCH 2007

SCALE

NTS

TITLE

**SECOND
 FLOOR
 LEAD
 SAMPLES**

SHEET

2-3



APPENDIX F
FUNCTIONAL SPACE FORMS



<p>Building: M-02</p> <p>Date: February 07, 2007</p> <p>Job #: PR-06-039</p>	<p>Notes:</p> <p>1) ACM debris (aircell) is fairly intact and lying on top of the steam system.</p> <p>2) Samples M2-09A & M2-L4 were collected here.</p> <p>3) Due to the high ceilings in this area and insufficient lighting, the room was only partially inspected. There are several mechanical piping systems that likely contain ACM that are located 30 to 40 feet from the floor area. These systems generally run around the perimeter of the sub-basement area. Only those systems that were within reach of a ladder were fully assessed.</p>	<p>Functional Space (FS) #: SB01</p> <p>FS Area: Sub-basement lower level</p> <p>Inspector: BM & RT</p>
---	--	--

Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri--able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	N/A	Concrete	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	N/A	Concrete	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	N/A	Concrete	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	N/A															
Other	N/A	FG PI	Chiller	N	--	--	--	--	--	--	--	--	--	--	--	--
	06	MJC FI	Chiller	Y	Y	20% Chrysotile	4 units	X	--	--	--	--	X	O&M	B-1	--
	07	Aircell PI	Steam	Y	Y	30% Chrysotile	53 LM	X	--	--	--	--	X	O&M	B-1	--
	07	Aircell PI	HWH	Y	Y	30% Chrysotile	3 LM	--	X	--	--	--	X	1 Encapsulation	B-2	01
	06	MJC FI	Steam	Y	Y	20% Chrysotile	8 units	X	--	--	--	--	X	O&M	B-1	--
	06	MJC FI	HWH	Y	Y	20% Chrysotile	8 units	X	--	--	--	--	X	O&M	B-1	--
	07	ACM debris (aircell)	Steam	Y	Y	30% Chrysotile	0.5 LM	--	--	X	--	--	X	Clean up	B-2	02
	09	Pipe wrap heavy gauge	Chiller	Y	Y	15% Chrysotile	10 LM	X					X	O&M	B-1	--
	N/A	FG PI & FI	Condensate	--	--	--	--	--	--	--	--	--	--	--	--	--
	06	MJC FI	Condensate	Y	Y	20% Chrysotile	10 units	X	--	--	--	--	X	O&M	B-1	--
	07	Aircell PI	HWH	Y	Y	30% Chrysotile	55 LM	X	--	--	--	--	X	O&M	B-1	--

Criteria for Access to an area containing ACM:

- A: All building occupants may have access to this area
- B: Restricted to building staff only
- C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:

- G: ACM is in GOOD condition; No damage
- F: ACM is in FAIR condition; Less than 2% damage
- P: ACM is in POOR condition; Greater than 2% damage

- MJC: Mud Joint Compound
- PI: Pipe Insulation
- FI: Fitting Insulation
- FG: Fibreglass
- DI: Duct Insulation



Building: M-02 Date: February 07, 2007 Job #: PR-06-039	Notes: 1) Damaged MJC fitting insulation requires 1 encapsulation on the condensate system. 2) Damaged MJC fitting insulation requires 1 encapsulation on the chiller system. 3) Sample M02-10 was collected here.	Functional Space (FS) #: B001 FS Area: Upper level of sub-basement (mechanical room) Inspector: BM & RT
--	--	--

Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri--able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	N/A	Concrete	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Wood walkway	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	N/A	Concrete	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	N/A	Concrete	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	N/A															
Other	07	Aircell PI	LPS	Y	Y	30% Chrysotile	26 LM	X	--	--	--	--	X	O&M	B-1	--
	06	MJC FI	LPS	Y	Y	20% Chrysotile	28 units	X	--	--	--	--	X	O&M	B-1	--
	10	Mag Block PI	LPS	Y	Y	27% Chrysotile	1.5 LM	X	--	--	--	--	X	O&M	B1--	--
	06	MJC FI	HWH	Y	Y	20% Chrysotile	43 units	X	--	--	--	--	X	O&M	B-1	--
	N/A	FG PI & FI	HWH	--	--	--	--	--	--	--	--	--	--	--	--	--
	07	Aircell PI	HWH	Y	Y	30% Chrysotile	7 LM	X	--	--	--	--	X	O&M	B-1	--
	07	Aircell PI	Condensate	Y	Y	30% Chrysotile	11 LM	X	--	--	--	--	X	O&M	B-1	--
	06	MJC FI	Condensate	Y	Y	20% Chrysotile	16 units	X	--	--	--	--	X	O&M	B-1	--
	06	MJC FI	Condensate	Y	Y	20% Chrysotile	1 unit	--	X	--	--	--	X	1 encapsulation	B-2	03
	06	MJC FI	Chiller	Y	Y	20% Chrysotile	1 unit	--	X	--	--	--	X	1 encapsulation	B-2	04
	N/A	FG PI & FI	DCW	N	--	--	--	--	--	--	--	--	--	--	--	--

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 07, 2007 Job #: PR-06-039	Notes: 1) Damaged sweat wrap pipe insulation requires 1 encapsulation on the domestic cold water system. 2) Samples M02-11 & M02-12 were collected here.	Functional Space (FS) #: B002 FS Area: Rm. #B43 Inspector: BM & RT
--	---	---

Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri-able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	N/A	Concrete	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	N/A	Concrete	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
	11	Transite Wall Panel	Wall	Y	N	45% Chrysotile	30m ²	X	--	--	--	X	--	O&M	B-1	--
Ceiling	N/A	Concrete	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	12	Sweat wrap (with tar and white paper layer) PI	DCW	Y	Y	15% Chrysotile	5 LM	X	--	--	--	X	--	O&M	B-1	--
	12	Sweat wrap (with tar and white paper layer) PI	DCW	Y	Y	15% Chrysotile	0.2 LM	--	--	X	--	X	--	1 Encapsulation	B-2	05
	06	MJC FI	DCW	Y	Y	20% Chrysotile	11 units	X	--	--	--	X	--	O&M	B-1	--
Other	06	MJC FI	HWH	Y	Y	20% Chrysotile	12 units	X	--	--	--	X	--	O&M	B-1	--
	N/A	FG PI & FI	HWH	--	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	FG PI & FI	Chiller	--	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	FG PI & FI	DCW	--	--	--	--	--	--	--	--	--	--	--	--	--

Criteria for Access to an area containing ACM:

- A: All building occupants may have access to this area
- B: Restricted to building staff only
- C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:

- G: ACM is in GOOD condition; No damage
- F: ACM is in FAIR condition; Less than 2% damage
- P: ACM is in POOR condition; Greater than 2% damage

- MJC: Mud Joint Compound
- PI: Pipe Insulation
- FI: Fitting Insulation
- FG: Fibreglass
- DI: Duct Insulation



Building: M-02 Date: February 07, 2007 Job #: PR-06-039	Notes: 1) No ACM's were observed in this area. 2) Samples M02-13 (A-C) were collected here.	Functional Space (FS) #: B003 FS Area: Rm. #B45 & stairs Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri-able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	N/A	Concrete	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	N/A	Concrete	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Wood	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
	13	Brown insulation board	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	N/A	Concrete	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Wood	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	N/A															
Other	N/A															

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 07, 2007 Job #: PR-06-039	Notes: 1) No ACM's were observed in this area. 2) Sample M02-08E was collected here.	Functional Space (FS) #: B005 FS Area: Rm. # B053 Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri-able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	N/A	Concrete	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	N/A	Concrete	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	08	Plaster	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	N/A															
Other	N/A															

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 07, 2007 Job #: PR-06-039	Notes: 1) No ACM's were observed in this area.	Functional Space (FS) #: B006 FS Area: Rm. B44, hall & gear room Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri-able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	N/A	Concrete	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	N/A	Concrete	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	N/A	Concrete	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Wood	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	N/A															
Other	N/A															

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



<p>Building: M-02</p> <p>Date: February 07, 2007</p> <p>Job #: PR-06-039</p>	<p>Notes:</p> <p>1) Samples M02-05 (A-C) were collected here.</p> <p>2) Damaged aircell pipe insulation requires 1 encapsulation on the domestic cold water system.</p> <p>3) Damaged aircell pipe insulation requires 1 encapsulation on the domestic hot water system.</p>	<p>Functional Space (FS) #: B007</p> <p>FS Area: Rm.# B56, computer control room</p> <p>Inspector: BM & RT</p>
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri-able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	N/A	Concrete	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	N/A	Wood Panel	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
	05	12"x12" Tile (uniform dot pattern)	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	N/A	Metal	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
	05	12"x12" Tile (uniform dot pattern)	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	N/A															
Other	N/A	FG PI & FI	Chiller	N	--	--	--	--	--	--	--	--	--	--	--	--
	07	Aircell PI	DCW	Y	Y	30% Chrysotile	0.2 LM	--	X	--	--	X	--	1 Encapsulation	B-2	06
	07	Aircell PI	DHW	Y	Y	30% Chrysotile	0.2 LM	--	X	--	--	X	--	1 Encapsulation	B-2	07
	N/A	FG PI & FI	DHW	--	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	FG PI & FI	DHW	--	--	--	--	--	--	--	--	--	--	--	--	--
	07	Aircell PI	DCW	Y	Y	30% Chrysotile	8 LM	X	--	--	--	X	--	O&M	B-1	--
	07	Aircell PI	DCW	Y	Y	30% Chrysotile	8 LM	X	--	--	--	X	--	O&M	B-1	--
	06	MJC FI	DCW	Y	Y	20% Chrysotile	15 units	X	--	--	--	X	--	O&M	B-1	--
	06	MJC FI	DHW	Y	Y	20% Chrysotile	1 units	X	--	--	--	X	--	O&M	B-1	--
		Foam PI FI	DCW	--	--	--	--	--	--	--	--	--	--	--	--	--

Criteria for Access to an area containing ACM:

- A: All building occupants may have access to this area
- B: Restricted to building staff only
- C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:

- G: ACM is in GOOD condition; No damage
- F: ACM is in FAIR condition; Less than 2% damage
- P: ACM is in POOR condition; Greater than 2% damage

- MJC: Mud Joint Compound
- PI: Pipe Insulation
- FI: Fitting Insulation
- FG: Fibreglass
- DI: Duct Insulation



Building: M-02 Date: February 07, 2007 Job #: PR-06-039	Notes: 1) No ACM's were observed in this area. 2) Samples M02-15 (A-C), M02-16 (A-C) & M02-17 (A-C) were collected here.	Functional Space (FS) #: B008 FS Area: Rm. #B58 Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri-able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	15	12"x12" FT (beige with brown stripes)	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
	16	12"x12" FT (beige with brown spots)	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	N/A	Drywall	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	17	2'x4' CT (scattered divot pattern)	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	05	12"x12" Tile (uniform dot pattern)	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Other	N/A	FG PI & FI	Wall Cavity	N	--	--	--	--	--	--	--	--	--	--	--	--

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 07, 2007 Job #: PR-06-039	Notes: 1) All ACM's were observed in good condition.	Functional Space (FS) #: B009 FS Area: Rm. #004, 001 Basement Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri--able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	18	9" x 9" FT (red, black, grey)	Floor	Y	N	1% Chrysotile	76m ²	X			X			O&M	B-1	--
	16	12"x12" FT (cream)	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	N/A	Concrete	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	N/A	Concrete	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	N/A															
Other	N/A															

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 07, 2007 Job #: PR-06-039	Notes: 1) All ACM's were observed in good condition.	Functional Space (FS) #: B010 FS Area: Rm. #002 Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri-able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	N/A	Concrete	Floor	--	--	--	--	--	--	--	--	--	--	--	--	--
Walls	N/A	Concrete	Wall	--	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Concrete block	Wall	--	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	N/A	Concrete	Ceiling	--	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	N/A															
Other	07	Aircell PI	Fire	Y	Y	30% Chrysotile	1 LM	X	--	--	--	X	--	O&M	B-1	--
	06	MJC FI	Fire	Y	Y	20% Chrysotile	1 LM	X	--	--	--	X	--	O&M	B-1	--

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 07, 2007 Job #: PR-06-039	Notes: 1) All ACM's were observed in good condition.	Functional Space (FS) #: B011 FS Area: Rm. #003 Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri--able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	N/A	Terrazzo	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	N/A	Concrete	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	N/A	Concrete	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	N/A															
Other	07	Aircell PI	DCW	Y	Y	30% Chrysotile	4 LM	X	--	--	--	X	--	O&M	B-1	--
	06	MJC FI	DCW	Y	Y	20% Chrysotile	2 units	X	--	--	--	X	--	O&M	B-1	--
	07	Aircell PI	HWH	Y	Y	30% Chrysotile	8 LM	X	--	--	--	X	--	O&M	B-1	--
	N/A	FG DI	Duct	--	--	--	--	--	--	--	--	--	--	--	--	--

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 07, 2007 Job #: PR-06-039	Notes: 1) All ACM's were observed in good condition.	Functional Space (FS) #: B012 FS Area: Rm. #005 Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri-able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	18	9"x9" FT (red)	Floor	Y	N	1% Chrysotile	15m ²	X	--	--	--	X		O&M	B-1	--
Walls	N/A	Wood panel	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	12"x12" FG Panel	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	N/A	Concrete	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	N/A															
Other	N/A															

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 07, 2007 Job #: PR-06-039	Notes: 1) No ACM's were observed in this area.	Functional Space (FS) #: B013 FS Area: Rm. #011 Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri--able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	N/A	Concrete	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	N/A	Concrete block	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	N/A	Concrete	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	N/A															
Other	N/A	FG PI & FI	HWH	N	--	--	--	--	--	--	--	--	--	--	--	--

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 07, 2007 Job #: PR-06-039	Notes: 1) No access was available to this area at the time of inspection.	Functional Space (FS) #: B014 FS Area: Rm. #009 Inspector: BM & RT
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Building Materials				ACM Assessment									Report Reference			
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri-able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	N/A															
Walls	N/A															
Ceiling	N/A															
Above Ceiling	N/A															
Other	N/A															

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 08, 2007 Job #: PR-06-039	Notes: 1) All mechanical systems have been re-insulated with fibreglass. 2) No ACM's were observed in this area.	Functional Space (FS) #: B016 FS Area: Rm. #013, 014, 015 & 008 Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri-able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	N/A	Concrete	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	N/A	Concrete block	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	N/A	Concrete	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	N/A															
Other	N/A	FG PI & FI	All	N	--	--	--	--	--	--	--	--	--	--	--	--

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 08, 2007 Job #: PR-06-039	Notes: 1) No ACM's were observed in this area below the ceiling. 2) No access above the solid ceiling.	Functional Space (FS) #: 1001 FS Area: Rm. #146, work shop Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri-able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	N/A	Concrete	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	08	Plaster	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	N/A	Drywall	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Metal deck	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	N/A	No access above drywall	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other	N/A	FG PI & FI	HWH	N	--	--	--	--	--	--	--	--	--	--	--	--

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 08, 2007 Job #: PR-06-039	Notes: 1) This entire area has a vaulted ceiling and was inspected from the floor only. 2) Damaged sweat wrap (with tar and white paper layer) pipe insulation requires 1 encapsulation on the domestic cold water system – 0.1 LM 3) Damaged MJC fitting insulation (residual MJC) requires 1 encapsulation on the hot water heating system (end unit by radiator). 4) Samples M02-08B & M02-08C were collected here.	Functional Space (FS) #: 1002 FS Area: Rm. #145 Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri--able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	N/A	Concrete	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	N/A	Drywall	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	12"x12"FG Tile	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
	08	Plaster	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	N/A	Metal	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Other	06	MJC FI	HWH	Y	Y	20% Chrysotile	22units	X	--	--	--	X	--	O&M	1-1	--
	N/A	FG PI	HWH	--	--	--	--	--	--	--	--	--	--	--	--	--
	06	MJC FI	DCW	Y	Y	20% Chrysotile	13 units	X	--	--	--	X	--	O&M	1-1	--
	06	MJC FI	HWH	Y	Y	20% Chrysotile	1 unit	--	--	X	--	X	--	1 Encapsulation	1-2	08
	N/A	FG PI & FI	DCW	N	--	--	--	--	--	--	--	--	--	--	--	--
	12	Sweat wrap (with tar and white paper layer) PI	DCW	Y	Y	15% Chrysotile	6LM	--	--	--	--	X	--	O&M	1-1	--
	12	Sweat wrap (with tar and white paper layer) PI	DCW	Y	Y	15% Chrysotile	0.1LM	--	--	X	--	X	--	1 Encapsulation	1-2	09
Above Ceiling	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Criteria for Access to an area containing ACM:

- A: All building occupants may have access to this area
- B: Restricted to building staff only
- C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:

- G: ACM is in GOOD condition; No damage
- F: ACM is in FAIR condition; Less than 2% damage
- P: ACM is in POOR condition; Greater than 2% damage

- MJC: Mud Joint Compound
- PI: Pipe Insulation
- FI: Fitting Insulation
- FG: Fibreglass
- DI: Duct Insulation



Building: M-02 Date: February 08, 2007 Job #: PR-06-039	Notes: 1) Sample M02-08A was collected here. 2) No access was available above solid ceiling. 3) No ACM's were observed in this area below the ceiling.	Functional Space (FS) #: 1003 FS Area: Rm. #144 Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri-able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	N/A	Concrete	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	08	Plaster	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	N/A	Drywall	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	N/A															
Other	N/A	FG FI & PI	Chiller	N	--	--	--	--	--	--	--	--	--	--	--	--

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 06, 2007 Job #: PR-06-039	Notes: 1) This entire area has a vaulted ceiling and was inspected from the floor only. 2) No ACM's were observed in this area. 3) No access was available above the solid ceiling.	Functional Space (FS) #: 1004 FS Area: Rm. #143 & 142 Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri-able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	N/A	Concrete	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
	01	12"x12" FT (white with black specks)	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	08	Plaster	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	N/A	Drywall	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	12"x12"CT FG	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	--	No Access	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other	N/A	FI & DI	Chiller	N	--	--	--	--	--	--	--	--	--	--	--	--

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 06, 2007 Job #: PR-06-039	Notes: 1) Samples M02-07 & M02-06 were collected here. 2) No access was available above solid ceiling. 3) All ACM's were observed in good condition.	Functional Space (FS) #: 1005 FS Area: Rm. #140 Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri-able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	01	12"x12"FT (white with black streaks)	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	08	Plaster	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Metal deck	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	N/A	12"x12" FG CT	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Other		FG PI	HWH	N	--	--	--	--	--	--	--	--	--	--	--	--
	06	MJC FI	HWH	Y	Y	20% Chrysotile	4 units	X	--	--	--	X	--	O&M	1-1	--
	07	Aircell PI	HWH	Y	Y	30% Chrysotile	4 LM	X	--	--	--	X	--	O&M	1-1	--
Above Ceiling	N/A	No Access	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 06, 2007 Job #: PR-06-039	Notes: 1) Samples M02-01 (A-C) & M02-L1 (grey paint) were collected here. 2) All ACM's were observed in good condition.	Functional Space (FS) #: 1006 FS Area: Rm. #141 Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri-able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	01	12"x12" FT(white with black specks)	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	N/A	Drywall	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Wood	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	17	2'x4'CT (scattered divot pattern)	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
	14	2'x4'CT (divot pattern)	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	N/A	Metal	Deck	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	FG PI & FI	Chiller	N	--	--	--	--	--	--	--	--	--	--	--	--
	06	MJC FI	HWH	Y	Y	20% Chrysotile	15 units	X	--	--	--	--	X	O&M	1-1	--
	N/A	FG PI & FI	HWH	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	FG PI & FI	DHW	N	--	--	--	--	--	--	--	--	--	--	--	--
Other	N/A															

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fiberglass
 DI: Duct Insulation



Building: M-02 Date: February 06, 2007 Job #: PR-06-039	Notes: 1) Sample M2-L2 was collected here (pale blue paint). 2) All ACM's were observed in good condition.	Functional Space (FS) #: 1007 FS Area: Rm. #152, lunchroom Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri-able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	01	12"x12"FT (white with black specks)	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	N/A	Drywall	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	22	2'x4'CT (dot / divot pattern)	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
	14	2'x4'CT (divot pattern)	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	N/A	Metal	Deck	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	FG PI & FI	HWH	N	--	--	--	--	--	--	--	--	--	--	--	--
	06	MJC FI	HWH	Y	Y	20% Chrysotile	7 units	X	--	--	--	--	X	O&M	1-1	--
	N/A	FG PI & FI	Chiller	N	--	--	--	--	--	--	--	--	--	--	--	--
Other	N/A	FG PI & FI	DCW DHW	N	--	--	--	--	--	--	--	--	--	--	--	--

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 06, 2007 Job #: PR-06-039	Notes: 1) No ACM's were observed in this area. 2) Samples M02-02 (A-C) were collected here.	Functional Space (FS) #: 1008 FS Area: Rm. #151, 150, hall & storage Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri-able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	N/A	Concrete	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Rubber ramp	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
	02	12"x12" FT (white)	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	N/A	Drywall	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	N/A	Metal	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Concrete	Deck	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	N/A															
Other	N/A	FG FI & PI	All	N	--	--	--	--	--	--	--	--	--	--	--	--

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 06, 2007 Job #: PR-06-039	Notes: 1) All ACM's were observed in good condition. 2) Suspect mercury in instrument panel.	Functional Space (FS) #: 1009 FS Area: Rm. #148 & 148A, Control Rm. Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri--able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	N/A	2'x4' FT linoleum	Floor	N	--	--	--	--	--	--	--	--	--	Post 1986	--	--
Walls	N/A	Concrete	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
	08	Plaster	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
		12"x12" FG Tile	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	N/A	2'x4'CT	Ceiling	N	--	--	--	--	--	--	--	--	--	Post 1986	--	--
Above Ceiling	N/A	Metal	Deck	N	--	--	--	--	--	--	--	--	--	--	--	--
	06	MJC FI	HWH	Y	Y	20% Chrysotile	7 units	X	--	--	--	X	--	O&M	1-1	--
	N/A	FG PI & FI	HWH	N	--	--	--	--	--	--	--	--	--	--	--	--
N/A	FG PI & FI	HWH	N	--	--	--	--	--	--	--	--	--	--	--	--	--
Other	N/A															

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



<p>Building: M-02</p> <p>Date: February 06, 2007</p> <p>Job #: PR-06-039</p>	<p>Notes:</p> <p>1) Samples M02-14 (A-C) were collected here.</p> <p>2) All ACM's were observed in good condition.</p>	<p>Functional Space (FS) #: 1010</p> <p>FS Area: Rm. #147 & 147A, office</p> <p>Inspector: BM & RT</p>
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri-able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	N/A	Carpet	Floor		--	--	--	--	--	--	--	--	--	--	--	--
	02	12"x12" FT (white with blue)	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	N/A	Drywall	Wall		--	--	--	--	--	--	--	--	--	--	--	--
	05	Wall panel	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	14	2'x4'CT (divot pattern)	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
	17	2'x4'CT (scattered divot pattern)	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
	14	2'x4'CT (divot pattern)	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	N/A	Metal	Deck	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Concrete	Deck	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	FG PI & FI	Chiller	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	FG PI & FI	HWH	N	--	--	--	--	--	--	--	--	--	--	--	--
	06	MJC FI	HWH	Y	Y	20% Chrysotile	40 units	X	--	--	--	--	X	O&M	1-1	--
	07	Aircell PI	HWH	Y	Y	30% Chrysotile	13 LM	X	--	--	--	--	X	O&M	1-1	--
Other	N/A	FG PI & FI	HWH	N	--	--	--	--	--	--	--	--	--	--	--	--

Criteria for Access to an area containing ACM:

- A: All building occupants may have access to this area
- B: Restricted to building staff only
- C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:

- G: ACM is in GOOD condition; No damage
- F: ACM is in FAIR condition; Less than 2% damage
- P: ACM is in POOR condition; Greater than 2% damage

- MJC: Mud Joint Compound
- PI: Pipe Insulation
- FI: Fitting Insulation
- FG: Fibreglass
- DI: Duct Insulation



Building: M-02 Date: February 06, 2007 Job #: PR-06-039	Notes: 1) Samples M02-20 (A-C) & M02-21 were collected here. 2) All ACM's were observed in good condition. 3) 9"x 9" floor tile is located under the carpet.	Functional Space (FS) #: 1011 FS Area: Rm. #113, office Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri--able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	N/A	Carpet	Floor													
	18	9"x9" FT (dark grey)	Floor	Y	N	1% Chrysotile	38m ²	X	--	--	--	X	--	O&M	1-1	--
Walls	N/A	Concrete	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
	08	Plaster	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	20	2'x4' CT (scattered dot pattern)	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	06	MJC FI	Chiller	Y	Y	20% Chrysotile	22 units	X	--	--	--	X	--	O&M	1-1	--
	06	MJC FI	HWH	Y	Y	20% Chrysotile	6 units	X	--	--	--	X	--	O&M	1-1	--
	07	Aircell PI	HWH	Y	Y	30% Chrysotile	11 LM	X	--	--	--	X	--	O&M	1-1	--
Other	N/A															

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 08, 2007 Job #: PR-06-039	Notes: 1) No access was available above ceiling. 2) All ACM's were observed in good condition. 3) The 9" x 9" floor tile is located under the carpet.	Functional Space (FS) #: 1012 FS Area: Rm. #115, Office Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri-able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor		Carpet	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
	18	9"x9" FT (grey)	Floor	Y	N	1% Chrysotile	14m ²	X	--	--	--	X	--	O&M	1-1	--
Walls	N/A	Concrete	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
	08	Plaster	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Wood Panel	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	05	12"x12" CT (scattered dot pattern)	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	N/A	No Access	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other	N/A															

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 08, 2007 Job #: PR-06-039	Notes: 1) No ACM's were observed in this area. 2) No access available above plaster ceiling.	Functional Space (FS) #: 1013 FS Area: Rm. #111, Vestibule Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri-able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	N/A	Carpet	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	08	Plaster	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Glass	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	08	Plaster	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	--	No Access	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other	N/A															

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 08, 2007 Job #: PR-06-039	Notes: 1) No access above solid ceiling. 2) Sample M02-18 was collected here. 3) All ACM's were observed in good condition. 4) The 9" x 9" floor tile is located under the carpet.	Functional Space (FS) #: 1014 FS Area: Rm. #117 Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri-able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	N/A	Carpet														
	18	9"x9" FT (green)	Floor	Y	N	1% Chrysotile	14Fm ²	X	--	--	--	X		O&M	1-1	--
Walls	N/A	Concrete	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
	08	Plaster	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Drywall	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	08	Plaster	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	N/A	No Access	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other	N/A															

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 08, 2007 Job #: PR-06-039	Notes: 1) Sample M02-22 was collected here. 2) All ACM's were observed in good condition. 3) No access above plaster ceiling. 4) The 9" x 9" floor tile is located under the carpet.	Functional Space (FS) #: 1015 FS Area: Rm. #119 Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri-able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	N/A	Carpet	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
	18	9"x9" FT (brown)	Floor	Y	N	1% Chrysotile	38m ²	X	--	--	--	X	--	O&M	1-1	--
Walls	N/A	Concrete	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
	08	Plaster	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	20	2'x4'CT (scattered divot pattern)	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	08	Plaster	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Other	07	Aircell PI	HWH	Y	Y	30% Chrysotile	9 LM	X	--	--	--	--	X	O&M	1-1	--
	06	MJC FI	HWH	Y	Y	20% Chrysotile	6 units	X	--	--	--	--	X	O&M	1-1	--
	N/A															

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 08, 2007 Job #: PR-06-039	Notes: 1) All ACM's were observed in good condition.	Functional Space (FS) #: 1016 FS Area: Rm. #121 Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri--able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	N/A	Carpet	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Concrete	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	N/A	Concrete	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
	08	Plaster	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	N/A	Concrete	Deck	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	N/A															
Other	07	Aircell PI	HWH	Y	Y	30% Chrysotile	16 LM	X	--	--	--	X		O&M	1-1	--
	06	MJCFI	HWH	Y	Y	20% Chrysotile	16 units	X	--	--	--	X		O&M	1-1	--

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 08, 2007 Job #: PR-06-039	Notes: 1) Samples M02-23 (A-C) were collected here. 2) Damaged aircell pipe insulation requires 4 encapsulations on the hot water heat system.	Functional Space (FS) #: 1017 FS Area: Rm. #123 Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri-able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	N/A	Carpet	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
	21	Brown linoleum	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	08	Plaster	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Concrete	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	N/A	Concrete	Deck	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	N/A															
Other	07	Aircell PI	HWH	Y	Y	30% Chrysotile	18 LM	X	--	--	X	--	--	O&M	1-1	--
	06	MJC FI	HWH	Y	Y	20% Chrysotile	16 units	X	--	--	X	--	--	O&M	1-1	--
	07	Aircell PI	HWH	Y	Y	30% Chrysotile	0.4LM	--	X	--	X	--	--	4 encapsulations required	1-2	10, 11
	N/A	FG PI & FI	Steam	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	FG PI & FI	Condensate	N	--	--	--	--	--	--	--	--	--	--	--	--

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 08, 2007 Job #: PR-06-039	Notes: 1) Damaged aircell pipe insulation requires 4 encapsulations on the hot water heating system. 2) Damaged MJC fitting insulation requires 1 encapsulation on the hot water heating system.	Functional Space (FS) #: 1018 FS Area: Rm. #125, 125A & 127 Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri-able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	02	12"X12"FT (white with blue streak)	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
	21	Brown linoleum	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Carpet	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	N/A	Concrete	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
	08	Plaster	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Vinyl partition	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	N/A	Concrete	Deck	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	N/A															
Other	07	Aircell PI	HWH	Y	Y	30% Chrysotile	3 units	X	--	--	--	X	--	O&M	1-1	--
	07	Aircell PI	HWH	Y	Y	30% Chrysotile	2 LM	--	X	--	--	X	--	4 encapsulations required	1-2	12, 13
	06	MJC FI	HWH	Y	Y	20% Chrysotile	29 LM	X	--	--	--	X	--	O&M	1-1	--
	06	MJC FI	HWH	Y	Y	20% Chrysotile	1 LM	--	X	--	--	X	--	1 encapsulation required	1-2	14

Criteria for Access to an area containing ACM:

- A: All building occupants may have access to this area
- B: Restricted to building staff only
- C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:

- G: ACM is in GOOD condition; No damage
- F: ACM is in FAIR condition; Less than 2% damage
- P: ACM is in POOR condition; Greater than 2% damage

- MJC: Mud Joint Compound
- PI: Pipe Insulation
- FI: Fitting Insulation
- FG: Fibreglass
- DI: Duct Insulation



Building: M-02	Notes: 1) All ACM's were observed in good condition. 2) Samples M-02-24(A-C) were collected here.	Functional Space (FS) #: 1019
Date: February 08, 2007		FS Area: Rm. #129, 129A, 129B, 129C, 135A, 135B & 135C
Job #: PR-06-039		Inspector: BM & RT

Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri--able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	N/A	Carpet	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
	18	9"x9" FT (white & green)	Floor	Y	N	1% Chrysotile	170m ²	X	--	--	--	X	--	O&M	1-1	--
Walls	N/A	Concrete	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
	08	Plaster	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Vinyl partition	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	17	2'x4'CT (scattered divot pattern)	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
	14	2'x4'CT (deep divot pattern)	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	2'x4'CT (4"x 4" square pattern)	Ceiling	N	--	--	--	--	--	--	--	--	--	Post 1986	--	--
Above ceiling	N/A	Concrete	Deck	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	FG & DI	Duct	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	FG PI & FI	Chiller	N	--	--	--	--	--	--	--	--	--	--	--	--
	07	Aircell PI	HWH	Y	Y	30% Chrysotile	40 LM	X	--	--	--	--	X	O&M	1-1	--
	06	MJC FI	HWH	Y	Y	20% Chrysotile	36 units	X	--	--	--	--	X	O&M	1-1	--
	07	Aircell PI	DCW	Y	Y	30% Chrysotile	1 LM	X	--	--	--	--	X	O&M	1-1	--
	07	Aircell PI	DHW	Y	Y	30% Chrysotile	1 LM	X	--	--	--	--	X	O&M	1-1	--
	06	MJC FI	DCW	Y	Y	20% Chrysotile	2 units	X	--	--	--	--	X	O&M	1-1	--
	06	MJC FI	DHW	Y	Y	20% Chrysotile	2 units	X	--	--	--	--	X	O&M	1-1	--
Other	07	Aircell PI	HWH	Y	Y	30% Chrysotile	9 LM	X	--	--	--	--	X	O&M	1-1	--

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 08, 2007 Job #: PR-06-039	Notes: 1) Damaged MJC fitting on the hot water heating system requires one encapsulation.	Functional Space (FS) #: 1020 FS Area: Rm. #'s 134 & 134A Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri--able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	N/A	Carpet	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
	21	Brown linoleum	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	08	Plaster	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Metal & vinyl partition	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	22	2'x4' CT (scattered dot divot pattern)	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	07	Aircell PI	DHW	Y	Y	30% Chrysotile	14 LM	X	--	--	--	--	X	O&M	1-1	--
	07	Aircell PI	DCW	Y	Y	30% Chrysotile	20 LM	X	--	--	--	--	X	O&M	1-1	--
	07	Aircell PI	HWH	Y	Y	30% Chrysotile	30 LM	X	--	--	--	--	X	O&M	1-1	--
	N/A	12"x12" FG Tile	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
	06	MJC FI	HWH	Y	Y	20% Chrysotile	12 units	X	--	--	--	--	X	O&M	1-1	--
	06	MJC FI	DCW	Y	Y	20% Chrysotile	6 units	X	--	--	--	--	X	O&M	1-1	--
Other	06	MJC FI	HWH	Y	Y	20% Chrysotile	5 units	X	--	--	--	--	X	O&M	1-1	--
	06	MJC FI	HWH	Y	Y	20% Chrysotile	1 unit	--	--	X	--	X	--	1 Encapsulation	1-2	15
	N/A	FG PI & FI	HWH	N	--	--	--	--	--	--	--	--	--	--	--	--

Criteria for Access to an area containing ACM:

- A: All building occupants may have access to this area
- B: Restricted to building staff only
- C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:

- G: ACM is in GOOD condition; No damage
- F: ACM is in FAIR condition; Less than 2% damage
- P: ACM is in POOR condition; Greater than 2% damage

- MJC: Mud Joint Compound
- PI: Pipe Insulation
- FI: Fitting Insulation
- FG: Fibreglass
- DI: Duct Insulation



Building: M-02 Date: February 08, 2007 Job #: PR-06-039	Notes: 1) Damaged MJC fitting insulation requires one encapsulation on the hot water heating system.	Functional Space (FS) #: 1021 FS Area: Rm. #132, Water tunnel Lab Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri--able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	N/A	Concrete	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	08	Plaster	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Vinyl	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Wood Panel	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	N/A	12"x12" FG Tile	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	2'x4' FG CT	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	N/A															
Other	06	MJC FI	HWH	Y	Y	20% Chrysotile	20 units	X	--	--	--	X	--	O&M	1-1	--
	07	Aircell PI	HWH	Y	Y	30% Chrysotile	22 LM	X	--	--	--	X	--	O&M	1-1	--
	06	MJC FI	HWH	Y	Y	20% Chrysotile	1 unit	--	X	--	--	X	--	1 encapsulation	1-2	16

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 08, 2007 Job #: PR-06-039	Notes: 1) All ACM's were observed in good condition.	Functional Space (FS) #: 1022 FS Area: Rm.. #'s 128 & 130 Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri--able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	04	12"x12" FT (grey with brown stripes)	Floor	Y	N	2% Chrysotile	81m ²	X	--	--	--	X	--	O&M	--	--
Walls	N/A	Vinyl Partition	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Fabric Panel	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	N/A	2'x4' FG CT	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	N/A	FG PI & FI	Chiller													
	06	MJC FI	HWH	Y	Y	30% Chrysotile	24 units	X	--	--	--	--	X	O&M	1-1	--
	07	Aircell PI	HWH	Y	Y	20% Chrysotile	32 LM	X	--	--	--	--	X	O&M	1-1	--
	N/A	FG & DI	Duct	N	--	--	--	--	--	--	--	--	--	--	--	--
	07	Aircell PI	HWH	Y	Y	20% Chrysotile	10 LM	X	--	--	X	--	--	O&M	1-1	--
	N/A	FG PI & FI	HWH	N	--	--	--	--	--	--	--	--	--	--	--	--
Other	05	12"x12" Tile (uniform hole pattern)	Deck	N	--	--	--	--	--	--	--	--	--	--	--	--

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 08, 2007 Job #: PR-06-039	Notes: 1) All ACM's were observed in good condition.	Functional Space (FS) #: 1023 FS Area: Rm. #126 Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri--able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	21	Brown linoleum	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Carpet	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	08	Plaster	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Vinyl partition	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	20	2'x4'CT (scattered divot pattern)	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	N/A	FG PI & FI	Chiller	N	--	--	--	--	--	--	--	--	--	--	--	--
	07	Aircell PI	HWH	Y	Y	30% Chrysotile	16 LM	X	--	--	--	--	X	O&M	1-1	--
	06	MJC FI	HWH	Y	Y	20% Chrysotile	12 Units	X	--	--	--	--	X	O&M	1-1	--
Other	05	12"x12" Tile (uniform hole pattern)	Deck	N	--	--	--	--	--	--	--	--	--	--	--	--

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 08, 2007 Job #: PR-06-039	Notes: 1) No access available above plaster ceiling. 2) No ACM's were observed in this area.	Functional Space (FS) #: 1024 FS Area: Rm. #'s 124 & 124A Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri-able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	N/A	Terrazzo	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Metal	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	08	Plaster	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Concrete	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	N/A	2'x4'CT (4" square pattern)	Ceiling	N	--	--	--	--	--	--	--	--	--	Post 1986	--	--
Above Ceiling	08	Plaster	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Drywall	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Other	N/A															

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 08, 2007 Job #: PR-06-039	Notes: 1) No access available above plaster ceiling. 2) No ACM's were observed in this area.	Functional Space (FS) #: 1025 FS Area: Rm. #122, washroom Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri-able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	01	12"x12" FT (off white with grey streaks)	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	08	Plaster	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	17	2'x4'CT (scattered divot pattern)	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	N/A	FG PI & FI	DCW	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	FG PI & FI	Chiller	N	--	--	--	--	--	--	--	--	--	--	--	--
	08	Plaster	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Other	N/A															

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 09, 2007 Job #: PR-06-039	Notes: 1) No access was available above the solid ceiling. 2) No ACM's were observed in this area.	Functional Space (FS) #: 1027 FS Area: Rm. #120, Janitor's closet Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri--able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	21	Linoleum (brown)	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Concrete	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	08	Plaster	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	08	Plaster	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	N/A															
Other	N/A	FG PI & FI	DCW	N	--	--	--	--	--	--	--	--	--	--	--	--

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 09, 2007 Job #: PR-06-039	Notes: 1) Samples M02-03 (A-C) & M02-04 were collected here. 2) Mould was observed on a ceiling tile in this area. 3) All ACM's were observed in good condition.	Functional Space (FS) #: 1029 FS Area: Rm. # 151A Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri-able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	N/A	Metal stairs	Floor	N												
	03	12"x12" FT (beige with brown stripes)	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
	04	12"x12" FT (grey with brown stripes)	Floor	Y	N	2% Chrysotile	6m ²	X	--	--	--	X	--	O&M	1-1	--
Walls	08	Plaster	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	17	2'x4' CT (scattered divot pattern)	Ceiling	--	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	06	MJC FI	HWH	Y	Y	20% Chrysotile	4 units	X	--	--	--	--	X	O&M	1-1	--
	N/A	FG PI & FI	HWH	--	--	--	--	--	--	--	--	--	--	--	--	--
Other	N/A	FG PI & FI	Chiller	--	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Mould	Ceiling	N	--	--	--	--	--	--	--	--	--	--	1-3	M1

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 09, 2007 Job #: PR-06-039	Notes: 1) Sample M02-L3 was collected here. 2) No ACM's were observed in this area.	Functional Space (FS) #: 1030 FS Area: Rm. #'s 149 &127 Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri-able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	02	12"x12" FT (off white with blue streak)	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	08	Plaster	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	17	2'x4' CT (scattered divot pattern)	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	N/A															--
Other	N/A															--

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 09, 2007 Job #: PR-06-039	Notes: 1) All ACM's were observed in good condition.	Functional Space (FS) #: 1031 FS Area: Rm. # 133 Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri--able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	18	9"x9" FT (white)	Floor	Y	N	1% Chrysotile	39m ²	X	--	--	X	--	--	--	1-1	--
Walls	08	Plaster	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Concrete	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Wood Panel	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	17	2'x4' CT (scattered divot pattern)	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	N/A															
Other	N/A															

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 09, 2007 Job #: PR-06-039	Notes: 1) Damaged MJC fitting insulation on the steam system requires one encapsulation. 2) Samples M02-L5 & M02-L6 were collected here.	Functional Space (FS) #: 2001 FS Area: Rm. # 270 Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri--able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	N/A	Concrete	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	08	Plaster	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	N/A	Concrete	Deck	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	N/A															
Other	07	Aircell PI	Condensate	Y	Y	30% Chrysotile	13 LM	X	--	--	--	X	--	O&M	2-1	--
	07	Aircell PI	Steam	Y	Y	30% Chrysotile	13 LM	X	--	--	--	X	--	O&M	2-1	--
	06	MJC FI	Steam	Y	Y	30% Chrysotile	1 unit	X	--	--	--	X	--	O&M	2-1	--
	06	MJC FI	Condensate	Y	Y	20% Chrysotile	2 units	X	--	--	--	X	--	O&M	2-1	--
	06	MJC FI	Steam	Y	Y	20% Chrysotile	1 unit	--	X	--	--	X	--	1 Encapsulation	2-2	17
	N/A	FG PI & FI	Chiller	N	--	--	--	--	--	--	--	--	--	--	--	--

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 09, 2007 Job #: PR-06-039	Notes: 1) No access available above solid ceiling. 2) Sample M02-08F was collected here.	Functional Space (FS) #: 2002 FS Area: Rm. # 272 Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri-able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	N/A	Concrete	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	08	Plaster	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Drywall	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Wood Panel	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	08	Plaster	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	N/A															
Other	N/A															

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 09, 2007 Job #: PR-06-039	Notes: 1) No access available above solid ceiling. 2) All ACM's were observed in good condition.	Functional Space (FS) #: 2003 FS Area: Rm. # 274 Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri-able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	N/A	Carpet	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
	18	9" x 9" FT (green)	Floor	Y	N	1% Chrysotile	19m ²	X	--	--	--	X	--	O&M	2-1	--
Walls	08	Plaster	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	12"x12" FG tile	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Wood panel	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	N/A	12"x12" FG tile	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	N/A															
Other	N/A															

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 09, 2007 Job #: PR-06-039	Notes: 1) No access above solid plaster ceiling. 2) All ACM's observed in good condition.	Functional Space (FS) #: 2004 FS Area: Rm. # 276 Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri-able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	18	9"x9"FT (green)	Floor	Y	N	1% Chrysotile	20m ²	X	--	--	--	X	--	O&M	2-1	--
Walls	08	Plaster	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	08	Plaster	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	N/A	No access	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other	N/A	No access	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 09, 2007 Job #: PR-06-039	Notes: 1) No access available above solid ceiling. 2) No ACM's were observed in this area. 3) Sample M02-08G was collected here.	Functional Space (FS) #: 2005 FS Area: Rm. # 278 Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri-able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	15	12"x12" FT (beige with brown streaks)	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	N/A	Drywall	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	12"x12" FG tile	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	N/A	12"x12" FG tile	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	N/A															
Other	N/A	FG PI & FI	Chiller	N	--	--	--	--	--	--	--	--	--	--	--	--

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 09, 2007 Job #: PR-06-039	Notes: 1) No ACM's were observed in this area.	Functional Space (FS) #: 2007 FS Area: Rm. # 273 Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri-able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	15	12"x12" FT (beige)	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Metal	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	N/A	Vinyl panel	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Plaster	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	14	2'x4' CT (scattered divot pattern)	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Concrete	Deck													
Above Ceiling	N/A															
Other	N/A															

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 09, 2007 Job #: PR-06-039	Notes: 1) No ACM's were observed in this area.	Functional Space (FS) #: 2008 FS Area: Rm. # 278A Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri-able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	N/A	Concrete	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	N/A	Wood panel	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	N/A	Concrete	Deck	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	N/A															
Other	N/A															

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 09, 2007 Job #: PR-06-039	Notes: 1) No access available above solid ceiling. 2) No ACM were observed in this area.	Functional Space (FS) #: 2009 FS Area: Rm. # 279 & 279A Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri-able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	21	Brown Linoleum	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Concrete	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	N/A	Drywall	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	N/A	Drywall	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	N/A															
Other	N/A															

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 09, 2007 Job #: PR-06-039	Notes: 1) No ACM's were observed in this area.	Functional Space (FS) #: 2010 FS Area: Rm. # wind tunnel Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri--able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	N/A	Wood	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Metal grate	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	N/A	Metal	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	N/A	Metal	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	N/A															
Other	N/A															

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 09, 2007 Job #: PR-06-039	Notes: 1) No ACM's were observed in this area.	Functional Space (FS) #: 2011 FS Area: Rm. # 201 & 201A Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri-able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	02	12"x12" FT (off white with blue streak)	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Carpet	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	08	Plaster	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	17	2'x4' CT (scattered divot pattern)	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	05	12"x12" CT (uniform hole pattern)	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Concrete	Deck	N	--	--	--	--	--	--	--	--	--	--	--	--
Other	N/A	FG PI & FI	Chiller	N	--	--	--	--	--	--	--	--	--	--	--	--

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 09, 2007 Job #: PR-06-039	Notes: 1) All mechanical systems on the wing of this floor have been re-insulated with fibreglass. 2) No ACM's were observed in this area.	Functional Space (FS) #: 2012 FS Area: Rm. # 200, 203, 207, 209 & 245 Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri-able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	N/A	Carpet	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
	21	Brown linoleum	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
	19	Gold linoleum	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	N/A	Drywall	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Vinyl wall panel	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	08	Plaster	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
	17	2'x4' CT (scattered divot pattern)	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	N/A	Concrete	Deck	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Concrete block	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
	13	Brown insulation board	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Drywall	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	FG PI & FI	All	N	--	--	--	--	--	--	--	--	--	--	--	--
Other	N/A															

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 09, 2007 Job #: PR-06-039	Notes: 1) No ACM's were observed in this area.	Functional Space (FS) #: 2014 FS Area: Rm. # 208 & 208A Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri-able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	N/A	6"x6" ceramic tile	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Carpet	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	08	Plaster	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	N/A	2'x4' CT (4" square pattern)	Ceiling	N	--	--	--	--	--	--	--	--	--	Post 1986	--	--
Above Ceiling	N/A	FG PI & FI	All	N	--	--	--	--	--	--	--	--	--	--	--	--
Other	N/A															

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 09, 2007 Job #: PR-06-039	Notes: 1) No access above solid ceiling. 2) No ACM's were observed in this area.	Functional Space (FS) #: SW01 FS Area: Stairwell Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri-able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	N/A	Terrazzo	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	08	Plaster	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	08	Plaster	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
 FG: Fibreglass
 DI: Duct Insulation



Building: M-02 Date: February 09, 2007 Job #: PR-06-039	Notes: 1) No access above solid ceiling. 2) No ACM's were observed in this area.	Functional Space (FS) #: SW02 FS Area: Stairwell Inspector: BM & RT
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Building Materials				ACM Assessment										Report Reference		
Location	Homg. Material #	Material Description	System	ACM Y/N	Fri-able Y/N	ACM Type	Qty.	Condition			Access			Response / Comments	Dwg. #	Photo #
								G	F	P	A	B	C			
Floor	01	12"x12" FT (off white with grey streaks)	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
	N/A	Concrete	Floor	N	--	--	--	--	--	--	--	--	--	--	--	--
Walls	08	Plaster	Wall	N	--	--	--	--	--	--	--	--	--	--	--	--
Ceiling	08	Plaster	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
	17	2'x4' CT (scattered divot pattern)	Ceiling	N	--	--	--	--	--	--	--	--	--	--	--	--
Above Ceiling	N/A															
Other	N/A															

Criteria for Access to an area containing ACM:
A: All building occupants may have access to this area
B: Restricted to building staff only
C: Areas of the building behind walls or ceiling system

Criteria for Condition of an ACM:
G: ACM is in GOOD condition; No damage
F: ACM is in FAIR condition; Less than 2% damage
P: ACM is in POOR condition; Greater than 2% damage

MJC: Mud Joint Compound
 PI: Pipe Insulation
 FI: Fitting Insulation
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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.

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

DESIGNATED SUBSTANCES SURVEY



BUILDING M-59 OTTAWA, ON

Distribution:

2 copies – National Research Council Canada

1 copy – Oakhill Environmental Inc.

March 2009



OAKHILL
ENVIRONMENTAL INC.



EXECUTIVE SUMMARY

Oakhill Environmental (Oakhill) was retained by National Research Council Canada (NRC) to conduct a designated substances survey within Building M-59 in Ottawa, Ontario. All site work was completed from February 27th to March 5th, 2009.

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 011 (FS#B001)	
	Damaged Aircell pipe insulation was identified on the condensate system. (0.4 LM)	One encapsulation is required on the damaged Aircell pipe insulation on the condensate system.
	Open-ended Aircell pipe insulation was identified on the condensate system. (0.2 LM)	One encapsulation is required on the open ended Aircell pipe insulation on the condensate system.
	Damaged Aircell pipe insulation was identified on the domestic cold water system. (0.2 LM)	One encapsulation is required on the damaged Aircell pipe insulation on the domestic cold water system.
	Open-ended Aircell pipe insulation was identified on the domestic cold water system. (0.4 LM)	Two encapsulations are required on the open ended Aircell pipe insulation on the domestic cold water system.
	One damaged mud joint compound fitting was identified on the domestic cold water system. (1 unit)	Encapsulate the one damaged mud joint compound fitting on the domestic cold water system.
	One damaged mud joint compound fitting was identified on the steam system. (1 unit)	Encapsulate the one damaged mud joint compound fitting on the steam system.
	One damaged mud joint compound fitting was identified on the steam system. (1 unit)	Remove the one damaged mud joint compound fitting on the steam system.
Damaged Aircell pipe insulation was identified on the steam system. (1.4 LM)	Three encapsulations are required on the damaged Aircell pipe insulation on the steam system.	



Issue	Comments	Recommendations
	Damaged Magblock pipe insulation was identified on the steam system. (1.4 LM)	Four encapsulations are required on the damaged Magblock pipe insulation on the steam system.
	Open-ended Magblock pipe insulation was identified on the steam system. (0.2 LM)	One encapsulation is required on the open ended Magblock pipe insulation on the steam system.
	Damaged Magblock pipe insulation was identified on the steam system. (0.5 LM)	One removal is required on the damaged Magblock pipe insulation on the steam system.
	Damaged Aircell pipe insulation was identified on the hot water heating system. (1.6 LM)	Four encapsulations are required on the damaged Aircell pipe insulation on the hot water heating system.
	Five damaged mud joint compound fitting was identified on the hot water heating system. (5 units)	Encapsulate the five damaged mud joint compound fittings on the hot water heating system.
	ACM debris (Aircell pipe insulation: from the HWH) was identified on the drain system. (<1.0 m ²)	Clean-up the ACM debris observed on the drain system.
	One damaged mud joint compound fitting (with fibreglass PI) was identified on the drain system. (1 unit)	Encapsulate the one damaged mud joint compound fitting (with fibreglass PI) on the drain system.
	Two damaged mud joint compound fittings (with Sweatwrap PI) were identified on the drain system. (2 units)	Encapsulate the two damaged mud joint compound fittings (with Sweatwrap PI) on the drain system.
	Two damaged mud joint compound fittings (with Sweatwrap PI) were identified on the drain system. (2 units)	Remove the two damaged mud joint compound fittings (with Sweatwrap PI) on the drain system.
	Damaged Aircell pipe insulation was identified on the domestic hot water system. (1.2 LM)	Three encapsulations are required on the damaged Aircell pipe insulation on the domestic hot water system.
	Open-ended Aircell pipe insulation was identified on the domestic hot water system. (0.6 LM)	Two encapsulations are required on the open ended Aircell pipe insulation on the domestic hot water system.
	Two damaged mud joint compound fittings were identified on the domestic hot water system. (2 units)	Encapsulate the two damaged mud joint compound fittings on the domestic hot water system.
	One damaged mud joint compound fitting was identified on the domestic hot water system. (1 unit)	Remove the one damaged mud joint compound fitting on the domestic hot water system.



Issue	Comments	Recommendations
	ACM debris (MJC from the DHW) was identified on the electrical box. (<1.0 m ²)	Clean up the ACM debris observed on the electrical box.
	ACM debris (Aircell PI from the DHW) was identified on the drain system. (<1.0 m ²)	Clean up the ACM debris observed on the drain system.
	One damaged section of fibreglass (with tar paper) duct insulation was identified on the duct system. (1.0 LM)	Encapsulate the one damaged section of fibreglass (with tar paper) duct insulation on the duct system.
	ACM debris (MJC from the drain) was identified on the duct system. (<1.0 m ²)	Clean up the ACM debris observed on the duct system.
Room 015 (FS#B006)		
	Damaged Magblock pipe insulation, Aircell pipe insulation, and mud joint compound fittings were identified on the hot water heating, condensate, steam, domestic hot, domestic cold, air line, gas line and unknown systems. Numerous areas of ACM debris from these systems were observed throughout the room.	<p>A Type 3 clean up is required as this functional space contains friable ACM debris with an area greater than 1.0 m² (approximately 200m² out of 335m²).</p> <p>Due to the significant number of damaged sections of ACM pipe insulation and ACM fittings, it is strongly recommended that <u>ALL</u> the ACM material be removed from this room along with the clean up of the debris.</p>
Room 017 (FS#B008)		
	Damaged Aircell pipe insulation was identified on the domestic hot water system. (0.6LM)	Two encapsulations are required on the damaged Aircell pipe insulation on the domestic hot water system.
Room 137 (FS#1001)		
	One damaged mud joint compound fitting was identified on the drain system. (1 unit)	Remove the one damaged mud joint compound fitting on the drain system.
	ACM debris (MJC from the drain) was identified on the floor. (<1.0 m ²)	Clean-up ACM debris observed on the floor.
Room 136 (FS#1002)		
	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.
	ACM debris (MJC from the DCW) was identified on the door. (<1.0 m ²)	Clean-up ACM debris observed on the door.



Issue	Comments	Recommendations
Rooms 133 & 133A (FS#1007)		
	Damaged Magblock pipe insulation was identified on the steam system. (2.4 LM)	Four encapsulations are required on the damaged Magblock pipe insulation on the steam system.
	One damaged mud joint compound fitting was identified on the steam system. (1 unit)	Encapsulate the one damaged mud joint compound fitting on the steam system.
	Open-ended Aircell pipe insulation was identified on the domestic cold water system. (0.2 LM)	Remove the damaged Aircell pipe insulation on the domestic cold water system.
	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.
	Two damaged mud joint compound fittings were identified on the drain system. (2 units)	Encapsulate the two damaged mud joint compound fittings on the drain system.
	Damaged Aircell pipe insulation was identified on the domestic hot water system. (1.4 LM)	Three encapsulations are required on the damaged Aircell pipe insulation on the domestic hot water system.
	Open-ended Aircell pipe insulation was identified on the domestic hot water system. (0.2 LM)	Remove the damaged Aircell pipe insulation on the domestic hot water system.
Room 132 (FS#1009)		
	Damaged Aircell pipe insulation was identified on the domestic hot water system. (0.8 LM)	Two encapsulations are required on the damaged Aircell pipe insulation on the domestic hot water system.
	Open-ended Aircell pipe insulation was identified on the hot water heating system. (0.2 LM)	One encapsulation is required on the open ended Aircell pipe insulation on the hot water heating system.
Room 131 (FS#1011)		
	One damaged mud joint compound fitting was identified on the drain system. (1 unit)	Encapsulate the one damaged mud joint compound fitting on the drain system.
	Open-ended Aircell pipe insulation was identified on the hot water heating system. (0.2 LM)	One encapsulation is required on the open ended Aircell pipe insulation on the hot water heating system.
Room 130 (FS#1012)		
	One damaged mud joint compound fitting was identified on the drain system. (1 unit)	Remove the one damaged mud joint compound fitting on the drain system.



Issue	Comments	Recommendations
	One damaged mud joint compound fitting was identified on the domestic cold water system. (1 unit)	Encapsulate the one damaged mud joint compound fitting on the domestic cold water system.
	Two damaged mud joint compound fitting was identified on the domestic hot water system. (2 units)	Encapsulate the two damaged mud joint compound fitting on the domestic hot water system.
	Open-ended Aircell pipe insulation was identified on the hot water heating system. (0.2 LM)	One encapsulation is required on the open ended Aircell pipe insulation on the hot water heating system.
	Two damaged mud joint compound fitting was identified on the hot water heating system. (2 units)	Encapsulate the two-damaged mud joint compound fitting on the hot water heating system.
Rooms 129, 128 & hallway (FS#1013)		
	Damaged Aircell pipe insulation was identified on the hot water heating system. (0.4 LM)	One encapsulation is required on the damaged Aircell pipe insulation on the hot water heating system.
	Open-ended Aircell pipe insulation was identified on the hot water heating system. (0.4 LM)	Two encapsulations are required on the open ended Aircell pipe insulation on the hot water heating system.
	One damaged mud joint compound fitting was identified on the hot water heating system. (1 unit)	Encapsulate the one damaged mud joint compound fitting on the hot water heating system.
	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.
	Open-ended Aircell pipe insulation was identified on the domestic hot water system. (0.2 LM)	One encapsulation is required on the open ended Aircell pipe insulation on the domestic hot water system.
	Damaged Aircell pipe insulation was identified on the domestic hot water system. (12.2 LM)	Two removals are required on the damaged Aircell pipe insulation on the domestic hot water system.
	ACM debris (Aircell from the HWH) was identified on the domestic hot water system. (<1.0 m ²)	Clean-up ACM debris observed on the domestic hot water.
	ACM debris (MJC from the HWH) was identified on the ceiling tiles. (<1.0 m ²)	Clean-up ACM debris observed on the ceiling tiles.
	Three areas of ACM debris (Aircell & MJC from an unknown system) were identified on the ceiling tile system. (each area is <1.0 m ²)	Clean up the three areas of ACM debris observed on the ceiling tile.



Issue	Comments	Recommendations
	ACM debris (Aircell PI) was identified on the wall. (<1.0 m ²)	Clean-up ACM debris observed on the wall.
	Damaged Aircell pipe insulation was identified on an unknown system. (1.2 LM)	Three removals are required on the damaged Aircell pipe insulation on the unknown system.
Room 126 (FS#1014)		
	Damaged Aircell pipe insulation was identified on the condensate system. (0.4 LM)	One encapsulation is required on the damaged Aircell pipe insulation on the condensate system.
	Open-ended Aircell pipe insulation was identified on the condensate system. (0.2 LM)	One encapsulation is required on the open ended Aircell pipe insulation on the condensate system.
	Seven damaged mud joint compound fittings were identified on the condensate system. (7 units)	Encapsulate the seven damaged mud joint compound fittings on the condensate system.
	Damaged Magblock pipe insulation was identified on the steam system. (0.8 LM)	Two encapsulations are required on the damaged Magblock pipe insulation on the steam system.
	Open-ended Magblock pipe insulation was identified on the steam system. (0.2 LM)	One encapsulation is required on the open ended Magblock pipe insulation on the steam system.
	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.
	Damaged Magblock pipe insulation was identified on the steam system. (1.0 LM)	One removal is required on the damaged Magblock pipe insulation on the steam system.
Room 106 (FS#1018)		
	Damaged Magblock pipe insulation was identified on the steam system. (0.6 LM)	Three encapsulations are required on the damaged Magblock pipe insulation on the steam system.
	Open-ended Magblock pipe insulation was identified on the steam system. (0.4 LM)	Two encapsulations are required on the open ended Magblock pipe insulation on the steam system.
	Open-ended Aircell pipe insulation was identified on the condensate system. (0.2 LM)	One encapsulation is required on the open ended Aircell pipe insulation on the condensate system.
	One damaged mud joint compound fitting was identified on the condensate system. (1 unit)	Encapsulate the one damaged mud joint compound fitting on the condensate system.
Room 113 (FS#1023)		



Issue	Comments	Recommendations
	Damaged Aircell pipe insulation was identified on the hot water heating system. (0.2 LM)	One encapsulation is required on the damaged Aircell pipe insulation on the hot water heating system.
	Open-ended Aircell pipe insulation was identified on the hot water heating system. (0.4 LM)	Two encapsulations are required on the open ended Aircell pipe insulation on the hot water heating system.
Room 114 (FS#B024)		
	Damaged Magblock pipe insulation was identified on the hot water heating system. (0.5 LM)	One removal is required on the damaged Magblock pipe insulation on the hot water heating system.
	Damaged Magblock pipe insulation was identified on the hot water heating system. (0.4 LM)	Two encapsulations are required on the damaged Magblock pipe insulation on the hot water heating system.
	Open-ended Aircell pipe insulation was identified on the hot water heating system. (0.2 LM)	One encapsulation is required on the open ended Aircell pipe insulation on the hot water heating system.
Room 115, 115a & hallway (FS#1025)		
	ACM debris (Magblock from the HWH) was identified on the ceiling tile. (<1.0 m ²)	Clean-up ACM debris observed on the ceiling tile.
	ACM debris (MJC from the HWH) was identified on the ceiling tiles. (<1.0 m ²)	Clean-up ACM debris observed on the ceiling tiles.
	Damaged fibreglass (with tar paper) duct insulation was identified on the duct system. (0.6 LM)	One encapsulation is required on the damaged fibreglass (with tar paper) duct insulation on the duct system.
	Damaged Aircell pipe insulation was identified on the hot water heating system. (0.4 LM)	Two encapsulations are required on the damaged Aircell pipe insulation on the hot water heating system.
	Open-ended Aircell pipe insulation was identified on the hot water heating system. (0.4 LM)	Two encapsulations are required on the open ended Aircell pipe insulation on the hot water heating system.
	Damaged Magblock pipe insulation was identified on the hot water heating system. (0.2 LM)	One encapsulation is required on the damaged Magblock pipe insulation on the hot water heating system.
	Damaged Magblock pipe insulation was identified on the hot water heating system. (0.2 LM)	One removal is required on the damaged Magblock pipe insulation on the hot water heating system.
Penthouse (FS#PH01)		



Issue	Comments	Recommendations
	<p>One damaged mud joint compound fitting was identified on the hot water heating system. (1 unit)</p>	<p>Encapsulate the one damaged mud joint compound fitting on the hot water heating system.</p>
	<p>One damaged mud joint compound fitting was identified on the hot water heating. (1 unit)</p>	<p>Remove the one damaged mud joint compound fitting on the hot water heating system.</p>
	<p>ACM debris (MJC from the HWH) was identified on the hot water heating system. (<1.0 m²)</p>	<p>Clean-up ACM debris observed on the hot water heating system.</p>
<p>Lead</p>	<p>Fourteen paint samples were submitted for lead analysis. Two samples contained greater than 5,000 ppm of lead and are therefore classified as lead-based paint. The plum paint on the doorframes in room 010 (FS#B004) was found to contain 5430 ppm of lead. The yellow paint on the gas pipes in room 126 (FS#1014) was found to contain 5400 ppm of lead.</p> <p>The remaining twelve samples were not 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 for 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 0.15 mg/m³ as prescribed by the OHSA.</p>
<p>Mercury</p>	<p>Mercury vapour may be present in fluorescent light tubes and thermostats. Mercury may also be present in paints and adhesives.</p>	<p>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.</p>



Issue	Comments	Recommendations
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 0.20 mg/m ³ by providing respiratory protection, and/or wetting down work area, and providing workers with a facility to properly wash prior to exiting the work area as prescribed by O.Reg. 845/90.
Suspect Mould	Room 11 (FS#B001)	
	Suspect mould was observed in two locations on the duct system below the solid ceiling. (>1 m ² respectively)	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.
	Room 119 (FS#1030)	
	Mould was observed in three locations on the ceiling tiles. (>1 m ²)	Mould was observed in three locations on the ceiling tiles. (>1 m ²)
	Closet (FS#2006)	
Mould was observed in one location on the ceiling tiles. (>1 m ²)	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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EXECUTIVE SUMMARY

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1.0 INTRODUCTION

Oakhill Environmental (Oakhill) was retained by the National Research Council Canada (NRC) to perform a survey for Designated Substances and mould of Building M-59 in Ottawa, Ontario. Building M-59 was surveyed from February 27th to March 5th, 2009.

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 three 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:

Acrylonitrile	O. Reg. 835/90 as amended by O. Reg. 101/04
Arsenic	O. Reg. 836/90 as amended by O. Reg. 102/04
Asbestos	O. Reg. 278/05 and O. Reg. 347/90
Benzene	O. Reg. 839/90 as amended by O. Reg. 105/04
Ethylene Oxide	O. Reg. 841/90 as amended by O. Reg. 107/04
Isocyanates	O. Reg. 842/90 as amended by O. Reg. 108/04
Lead	O. Reg. 843/90 as amended by O. Reg. 109/04
Mercury	O. Reg. 844/90 as amended by O. Reg. 110/04 and the MOL guideline
Silica	O. Reg. 845/90 as amended by O. Reg. 111/04
Vinyl Chloride	O. Reg. 846/90 as amended by O. Reg. 112/04

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 0.01 fibres/m³ of asbestos in air, 0.15 mg/m³ of lead in air, 4.3 mg/m³ of acrylonitrile in air, 0.2 mg/m³ of arsenic in air, 3.0 mg/m³ of benzene in air and 0.2 mg/m³ 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 clean up 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/cm²) 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. Kevin Christian, M.Sc., P.Geo.	QA Reviewer
Mr. Bill McGovern, Industrial Hygiene Cert.	Environmental Analyst
Mr. Raivo Tahiste, Bsc.	Environmental Analyst
Mr. Gino Barillaro, BA.	Environmental Analyst
Mr. Sean Bagnulo	Environmental Analyst
Mr. Sean Morris, Dip. C. Tech, CEPIT	Environmental Analyst
Ms. Tanya Fiocca	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 D.

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-59 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-59 is shown in Table 2.

Table 2 – Homogeneous Materials List

Hom. Mat. #	Material Description	Asbestos Type & Conc.	Sample No.
1	Mud Joint Compound Fitting Insulation (chiller)	60% Chrysotile	M59-1 (A-C)
2	Mud Joint Compound Fitting Insulation (DCW & drain with FG PI)	60% Chrysotile	M59-2 (A-C)
3	Fiberglass Pipe Insulation (with tar paper layer)	NAD	M59-3 (A-C)
4	Magblock Pipe Insulation	25% Chrysotile	M59-4 (A-C)
5	Mud Joint Compound Fitting Insulation (steam & condensate)	30% Chrysotile	M59-5 (A-C)
6	Aircell Pipe Insulation	40% Chrysotile	M59-6 (A-C)
7	Mud Joint Compound Fitting Insulation (HWH & DHW)	60% Chrysotile	M59-7 (A-C)
8	Linoleum (gray)	NAD	M59-8 (A-C)
9	12" x 12" FT (light gray with streaks)	2% Chrysotile	M59-9 (A-C)
10	12" x 12" FT (light gray with brown streaks)	NAD	M59-10 (A-C)
11	Sweatwrap Pipe Insulation (DCW & Drain)	NAD	M59-11 (A-C)
12	Mud Joint Compound Fitting Insulation (DCW & Drain with Sweatwrap PI)	65% Chrysotile	M59-12 (A-C)
13	Plaster	NAD	M59-13 (A-C)
14	Textured Plaster	2% Chrysotile	M59-14 (A-G)
15	Exterior Finish	2% Chrysotile	M59-15 (A-G)
16	Fiberglass Duct Insulation (with tar paper layer)	60% Chrysotile	M59-16 (A-C)
17	12" x 12" FT (black)	NAD	M59-17 (A-C)
18	12" x 12" FT (green)	10% Chrysotile	M59-18 (A-C)

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

5.1.1 Survey Findings

The Twelve building materials that contain asbestos are as follows:

- 1) Mud joint compound fitting insulation on the chiller system.
- 2) Mud joint compound fitting insulation on the domestic cold water and drain systems with fiberglass pipe insulation.
- 3) Magblock pipe insulation on the steam and condensate systems.
- 4) Mud joint compound fitting insulation on the steam and condensate systems.



- 5) Aircell pipe insulation on the steam, condensate, hot water heating, domestic hot water and domestic cold water systems.
- 6) Mud joint compound fitting insulation on the hot water heating and domestic hot water systems.
- 7) 12"x12" vinyl asbestos floor tile (light gray with streaks).
- 8) Mud joint compound fitting insulation on the domestic cold water and drain systems with sweatwrap pipe insulation.
- 9) Textured plaster on specific interior walls.
- 10) Exterior stucco finish.
- 11) Duct insulation fiberglass with a tarpaper layer.
- 12) Green floor tile, 12" x 12"

Table 3 provides a summary of all asbestos-containing materials by room. This table can be cross-referenced with the functional space forms in Appendix B to find a complete description of the room where ACM materials were encountered.

Table 3 – Summary of ACM by Room Listing

Functional Space ID#	Location	Homo. Mat. #	Material Description and Quantity	Response Measure
Basement				
B001	Room 011	2	Mud Joint Compound Fitting (Fibreglass Pipe Insulation) on the domestic cold water system. – 18 units	O&M
		2	Mud Joint Compound Fitting (Fibreglass Pipe Insulation) on the domestic cold water system. – 1 unit	1 encapsulation
		12	Mud Joint Compound Fitting (Sweatwrap Pipe Insulation) on the domestic cold water system. – 11 units	O&M
		6	Aircell Pipe Insulation on the domestic cold water system. – 23 LM	O&M
		6	Aircell Pipe Insulation on the domestic cold water system. – 0.6 LM	3 encapsulations
		4	Magblock Pipe Insulation on the condensate system. – 291 LM	O&M
		5	Mud Joint Compound Fitting condensate system. – 27 units	O&M
		6	Aircell Insulation on the condensate system. – 9 LM	O&M
		6	Aircell Pipe Insulation on the condensate system. – 0.6 LM	2 encapsulations
		4	Magblock Pipe Insulation on the steam system. – 46 LM	O&M
		4	Magblock Pipe Insulation on the steam system. – 0.5 LM	1 removal



Functional Space ID#	Location	Homo. Mat. #	Material Description and Quantity	Response Measure
		4	Magblock Pipe Insulation on the steam system. – 1.6 LM	5 encapsulations
		6	Aircell Insulation on the steam system. – 19 LM	O&M
		6	Aircell Pipe Insulation on the steam system. – 1.4 LM	3 encapsulations
		5	Mud Joint Compound Fitting on the steam system. – 60 units	O&M
		5	Mud Joint Compound Fitting on the steam system. – 1 unit	1 encapsulation
		5	Mud Joint Compound Fitting on the steam system. – 1 unit	1 removal
		6	Aircell Insulation on the hot water heating system. – 169 LM	O&M
		6	Aircell Pipe Insulation on the hot water heating system. – 1.6 LM	4 encapsulations
		7	Mud Joint Compound Fitting on the hot water heating system. – 152 units	O&M
		7	Mud Joint Compound Fitting on the hot water heating system. – 5 units	5 encapsulations
		6	ACM Debris (Aircell pipe insulation) on the drain system. – <1.0 m2.	Clean-up
		2	Mud Joint Compound Fitting (Fibreglass Pipe Insulation) on the drain system. – 5 units	O&M
		2	Mud Joint Compound Fitting (Fibreglass Pipe Insulation) on the drain system. – 1 unit	1 encapsulation
		12	Mud Joint Compound Fitting (Sweatwrap Pipe Insulation) on the drain system. – 47 units	O&M
		12	Mud Joint Compound Fitting (Sweatwrap Pipe Insulation) on the drain system. – 2 units	2 encapsulations
		12	Mud Joint Compound Fitting (Sweatwrap Pipe Insulation) on the drain system. – 2 units	2 removals
		6	Aircell Insulation on the domestic hot water system. – 111 LM	O&M
		6	Aircell Pipe Insulation on the domestic hot water system. – 1.8 LM	5 encapsulations
		7	Mud Joint Compound Fitting on the domestic hot water system. – 24 units	O&M
		7	Mud Joint Compound Fitting on the domestic hot water system. – 2 units	2 encapsulations
		7	Mud Joint Compound Fitting on the domestic hot water system. – 1 unit	1 removal
		7	ACM Debris (MJC fitting insulation) on the electrical box. – <1.0 m2.	Clean-up
		6	ACM Debris (Aircell pipe insulation) on the drain system. – <1.0 m2.	Clean-up
		1	Mud Joint Compound Fitting on the chiller system. – 12 units	O&M
		2	ACM Debris (MJC fitting insulation) on the duct system. – <1.0 m2.	Clean-up
		16	Fibreglass duct insulation with tar-paper layer on the duct system. – 46 LM	O&M
		16	Fibreglass duct insulation with tar-paper layer on the duct system. – 1 LM	1encapsulation



Functional Space ID#	Location	Homo. Mat. #	Material Description and Quantity	Response Measure
B004	Room 010	7	Mud Joint Compound Fitting on the hot water heating system. – 4 units	O&M
		6	Aircell Insulation on the hot water heating system. – 18 LM	O&M
		1	Mud Joint Compound Fitting on the chiller system. – 6 units	O&M
		6	Aircell Insulation on the domestic hot water system. – 6 LM	O&M
		4	Magblock Pipe Insulation on the steam system. – 5 LM	O&M
B005	Room 013	6	Aircell Insulation on the condensate system. – 5 LM	O&M
B006	Room 015	<p>Below are listed the individual items of ACM in this space. A Type 3 clean up is required as this functional space contains friable ACM debris with an area greater than 1.0 m² (approximately 200m² out of 335m²). Due to the significant number of damaged sections of ACM pipe insulation and ACM fittings, it is strongly recommended that <u>ALL</u> the ACM material be removed from this room along with the clean up of the debris.</p>		
		6	Aircell Insulation on the hot water heating system. – 159 LM	O&M
		6	Aircell Pipe Insulation on the hot water heating system. – 8.9 LM	25 encapsulations
		7	Mud Joint Compound Fitting on the hot water heating system. – 60 units	O&M
		7	Mud Joint Compound Fitting on the hot water heating system. – 2 units	2 encapsulations
		4	Magblock Pipe Insulation on the steam system. – 17 LM	O&M
		4	Magblock Pipe Insulation on the steam system. – 3.2 LM	4 encapsulations
		5	Mud Joint Compound Fitting on the steam system. – 3 units	O&M
		6	Aircell Insulation on the domestic hot water system. – 86 LM	O&M
		6	Aircell Pipe Insulation on the domestic hot water system. – 4.8 LM	19 encapsulations
		6	Aircell Pipe Insulation on the domestic hot water system. – 4.0 LM	2 removals
		7	Mud Joint Compound Fitting on the domestic hot water system. – 13 units	O&M
		7	Mud Joint Compound Fitting on the domestic hot water system. – 1 unit	1 encapsulation
		6	Aircell Insulation on the domestic cold water system. – 10 LM	O&M
		2	Mud Joint Compound Fitting on the domestic cold water system. – 13 units	O&M
		2	Mud Joint Compound Fitting on the domestic cold water system. – 3 units	3 encapsulations
		2	Mud Joint Compound Fitting on the domestic cold water system. – 1 unit	1 removal



Functional Space ID#	Location	Homo. Mat. #	Material Description and Quantity	Response Measure
		6	Aircell Insulation on the condensate system. – 20 LM	O&M
		6	Aircell Pipe Insulation on the condensate system. – 1.0 LM	4 encapsulations
		5	Mud Joint Compound Fitting on the condensate system. – 4 units	O&M
		5	Mud Joint Compound Fitting on the condensate system. – 1 unit	1 encapsulation
		5	Mud Joint Compound Fitting on the condensate system. – 1 unit	1 removal
		6	Aircell Pipe Insulation on the air system. – 0.4 LM	1 removal
		6	Aircell Pipe Insulation on the gas system. – 0.4 LM	1 removal
		5, 6, 7	ACM Debris (MJC fitting insulation and Aircell pipe insulation) on the floor in numerous areas. – >1.0 m2.	Clean-up
B008	Room 017	1	Mud Joint Compound Fitting on the chiller system. – 2 units	O&M
		6	Aircell Insulation on the domestic hot water system. – 6 LM	O&M
		6	Aircell Pipe Insulation on the domestic hot water system. – 0.6 LM	2 encapsulations
First Floor				
1001	Room 137	2	Mud Joint Compound Fitting on the drain system. – 2 units	O&M
		2	Mud Joint Compound Fitting on the drain system. – 1 unit	1 removal
		6	Aircell Insulation on the steam system. – 9 LM	O&M
		5	Mud Joint Compound Fitting on the steam system. – 1 unit	O&M
		6	Aircell Insulation on the condensate system. – 8 LM	O&M
		7	ACM Debris (MJC fitting insulation) on the floor. – <1.0 m2.	Clean-up
1002	Room 136	12	Mud Joint Compound Fitting (with Sweatwrap PI) on the domestic cold water system. – 1 unit	O&M
		2	Mud Joint Compound Fitting (with fibreglass PI) on the domestic cold water system. – 1 unit	1 removal
		6	Aircell Insulation on the steam system. – 4 LM	O&M
		5	Mud Joint Compound Fitting on the steam system. – 2 units	O&M
		6	Aircell Insulation on the condensate system. – 4 LM	O&M
		2	ACM Debris (MJC fitting insulation) on the door. – <1.0 m2.	Clean-up
1004	Room 135	5	Mud Joint Compound Fitting on the condensate system. – 4 units	O&M
		2	Mud Joint Compound Fitting (with fibreglass PI) on the drain system. – 3 units	O&M
1007	Room 133 & 133A	14	Textured plaster on the wall. – 38 m2	O&M
		14	Textured plaster on the ceiling. – 13 m2	O&M
		2	Mud Joint Compound Fitting on the drain system. – 6 units	O&M



Functional Space ID#	Location	Homo. Mat. #	Material Description and Quantity	Response Measure
		2	Mud Joint Compound Fitting on the drain system. – 2 units	2 encapsulations
		7	Mud Joint Compound Fitting on the hot water heating system. – 9 units	O&M
		2	Mud Joint Compound Fitting (with fibreglass PI) on the domestic cold water system. – 5 units	O&M
		2	Mud Joint Compound Fitting (with fibreglass PI) on the domestic cold water system. – 1 unit	1 removal
		4	Magblock Pipe Insulation on the steam system. – 18 LM	O&M
		4	Magblock Pipe Insulation on the steam system. – 2.4 LM	4 encapsulations
		5	Mud Joint Compound Fitting on the steam system. – 1 unit	1 encapsulation
		6	Aircell Pipe Insulation on the domestic hot water system. – 29 LM	O&M
		6	Aircell Pipe Insulation on the domestic hot water system. – 1.4 LM	3 encapsulations
		6	Aircell Pipe Insulation on the domestic hot water system. – 0.2 LM	1 removal
		7	Mud Joint Compound Fitting on the domestic hot water system. – 1 unit	1 removal
1009	Room 132	2	Mud Joint Compound Fitting (with fibreglass PI) on the drain system. – 2 units	O&M
		5	Mud Joint Compound Fitting on the steam system. – 4 units	O&M
		4	Magblock Pipe Insulation on the steam system. – 6 LM	O&M
		6	Aircell Pipe Insulation on the steam system. – 5 LM	O&M
		7	Mud Joint Compound Fitting on the hot water heating system. – 11 units	O&M
		6	Aircell Pipe Insulation on the hot water heating system. – 16 LM	O&M
		6	Aircell Pipe Insulation on the hot water heating system. – 0.2 LM	1 encapsulation
		6	Aircell Pipe Insulation on the domestic hot water system. – 13 LM	O&M
		6	Aircell Pipe Insulation on the domestic hot water system. – 0.8 LM	2 encapsulations
		5	Mud Joint Compound Fitting on the condensate system. – 4 unit	O&M
6	Aircell Pipe Insulation on the condensate system. – 12 LM	O&M		
1010	Hallway	4	Magblock Pipe Insulation on the steam system. – 3 LM	O&M
		6	Aircell Pipe Insulation on the condensate. – 3 LM	O&M
		6	Aircell Pipe Insulation on the domestic hot water system. – 6 LM	O&M
1011	Room 131	2	Mud Joint Compound Fitting (with fibreglass PI) on the drain system. – 3 units	O&M
		2	Mud Joint Compound Fitting (with fibreglass PI) on the drain system. – 1 unit	1 encapsulation
		4	Magblock Pipe Insulation on the steam system. – 4 LM	O&M
		6	Aircell Pipe Insulation on the condensate. – 4 LM	O&M
		6	Aircell Pipe Insulation on the domestic hot water. – 8 LM	O&M
		6	Aircell Pipe Insulation on the hot water heating system. – 9 LM	O&M
		6	Aircell Pipe Insulation on the hot water heating system. – 0.2 LM	1 encapsulation
7	Mud Joint Compound Fitting on the hot water heating system. – 2 units	O&M		



Functional Space ID#	Location	Homo. Mat. #	Material Description and Quantity	Response Measure
1012	Room 130	2	Mud Joint Compound Fitting (with fibreglass PI) on the drain system. – 1 unit	1 removal
		4	Magblock Pipe Insulation on the steam system. – 8 LM	O&M
		5	Mud Joint Compound Fitting on the steam system. – 4 units	O&M
		6	Aircell Pipe Insulation on the condensate. – 8 LM	O&M
		5	Mud Joint Compound Fitting on the condensate system. – 5 units	O&M
		2	Mud Joint Compound Fitting (with fibreglass PI) on the domestic cold water system. – 1 unit	O&M
		2	Mud Joint Compound Fitting (with fibreglass PI) on the domestic cold water system. – 1 unit	1 encapsulation
		6	Aircell Pipe Insulation on the domestic hot water. – 14 LM	O&M
		7	Mud Joint Compound Fitting on the domestic hot water system. – 2 units	O&M
		7	Mud Joint Compound Fitting on the domestic hot water system. – 2 units	2 encapsulations
		6	Aircell Pipe Insulation on the hot water heating system. – 12 LM	O&M
		6	Aircell Pipe Insulation on the hot water heating system. – 0.2 LM	1 encapsulation
		7	Mud Joint Compound Fitting on the hot water heating system. – 7 units	O&M
		7	Mud Joint Compound Fitting on the hot water heating system. – 2 units	2 encapsulations
1013	Rooms 128, 129 & Hallway	7	ACM Debris (Aircell pipe insulation) on the wall area. – <1.0 m ² .	Clean-up
		4	Magblock Pipe Insulation on the steam system. – 6 LM	O&M
		6	Aircell Pipe Insulation on the condensate. – 6 LM	O&M
		2	Mud Joint Compound Fitting (with fibreglass PI) on the domestic cold water system. – 1 unit	1 removal
		6	Aircell Pipe Insulation on the domestic hot water. – 1 LM	O&M
		6	Aircell Pipe Insulation on the domestic hot water. – 12.2 LM	2 removals
		6	Aircell Pipe Insulation on the domestic hot water. – 0.2 LM	2 encapsulations
		6	ACM Debris (Aircell pipe insulation) on the wall area. – <1.0 m ² .	Clean-up
		6	Aircell Pipe Insulation on the hot water heating system. – 15 LM	O&M
		6	Aircell Pipe Insulation on the hot water heating system. – 0.8 LM	3 encapsulations
		7	Mud Joint Compound Fitting on the hot water heating system. – 5 units	O&M
		7	Mud Joint Compound Fitting on the hot water heating system. – 1 unit	1 encapsulation
		6	Aircell Pipe Insulation on the unknown system. – 12 LM	3 removals
		7	ACM Debris (MJC fitting insulation and Aircell pipe insulation) on the ceiling area. – <1.0 m ² .	Clean-up
		7	ACM Debris (MJC fitting insulation) on the ceiling area. – <1.0 m ² .	Clean-up
		7	ACM Debris (MJC fitting insulation) on the ceiling area. – <1.0 m ² .	Clean-up
		7	ACM Debris (Aircell pipe insulation) on the ceiling area. – <1.0 m ² .	Clean-up
7	ACM Debris (MJC fitting insulation) on the ceiling area. – <1.0 m ² .	Clean-up		



Functional Space ID#	Location	Homo. Mat. #	Material Description and Quantity	Response Measure
		7	ACM Debris (MJC fitting insulation) on the ceiling area. – <1.0 m2.	Clean-up
		7	ACM Debris (MJC fitting insulation) on the ceiling area. – <1.0 m2.	Clean-up
		6	Aircell Pipe Insulation on the hot water heating system. – 16 LM	O&M
1014	Room 126	6	Aircell Pipe Insulation on the condensate. – 55 LM	O&M
		6	Aircell Pipe Insulation on the condensate. – 0.6 LM	2 encapsulations
		5	Mud Joint Compound Fitting on the condensate system. – 18 units	O&M
		5	Mud Joint Compound Fitting on the condensate system. – 7 units	7 encapsulations
		4	Magblock Pipe Insulation on the steam system. – 55 LM	O&M
		4	Magblock Pipe Insulation on the steam system. – 1.0 LM	3 encapsulations
		4	Magblock Pipe Insulation on the steam system. – 1.0 LM	1 removal
		5	Mud Joint Compound Fitting on the steam system. – 16 units	O&M
		5	Mud Joint Compound Fitting on the steam system. – 2 units	2 encapsulations
		2	Mud Joint Compound Fitting (with fibreglass PI) on the drain system. – 15 units	O&M
		1018	Room 106	--
4	Magblock Pipe Insulation on the condensate system. – 8 LM			O&M
4	Magblock Pipe Insulation on the condensate system. – 0.2 LM			1 encapsulation
5	Mud Joint Compound Fitting on the condensate system. – 8 units			O&M
5	Mud Joint Compound Fitting on the condensate system. – 1 unit			1 encapsulation
4	Magblock Pipe Insulation on the steam system. – 7 LM			O&M
4	Magblock Pipe Insulation on the steam system. – 1.0 LM			5 encapsulations
1019	Rooms 107, 108 & 109	5	Mud Joint Compound Fitting on the steam system. – 9 units	O&M
		--	9"x9" Floor tile (green) – 13m2	O&M
		6	Aircell Pipe Insulation on the domestic cold water system. -0.5 LM	O&M
		12	Mud Joint Compound Fitting (Sweatwrap Pipe Insulation) on the drain system. – 3 units	O&M
		6	Aircell Pipe Insulation on the domestic hot water system. -3 LM	O&M
1023	Room 113	7	Mud Joint Compound Fitting on the domestic hot water system. – 2 units	O&M
		16	Fibreglass duct insulation with tar-paper layer on the duct system. – 10 LM	O&M
		6	Aircell Pipe Insulation on the hot water heating system. – 18 LM	O&M
		6	Aircell Pipe Insulation on the hot water heating system. – 0.6 LM	3 encapsulations
1024	Room 114	7	Mud Joint Compound Fitting on the hot water heating system. – 18 units	O&M
		4	Magblock Pipe Insulation on the hot water heating system. – 11LM	O&M
		4	Magblock Pipe Insulation on the hot water heating system. – 0.4LM	2 encapsulations
		4	Magblock Pipe Insulation on the hot water heating system. – 0.5LM	1 removal
		6	Aircell Pipe Insulation on the hot water heating system. – 3 LM	O&M
		6	Aircell Pipe Insulation on the hot water heating system. – 0.2 LM	1 encapsulation
		7	Mud Joint Compound Fitting on the hot water heating system. – 5 units	O&M



Functional Space ID#	Location	Homo. Mat. #	Material Description and Quantity	Response Measure
1025	Rooms 115, 115A & Hallway	16	Fibreglass duct insulation with tar-paper layer on the duct system. – 9 LM	O&M
		16	Fibreglass duct insulation with tar-paper layer on the duct system. – 0.6 LM	1 encapsulation
		4	Magblock Pipe Insulation on the hot water heating system. –11LM	O&M
		4	Magblock Pipe Insulation on the hot water heating system. – 0.2LM	1 encapsulation
		4	Magblock Pipe Insulation on the hot water heating system. – 0.2LM	1 removal
		7	Mud Joint Compound Fitting on the hot water heating system. – 9 units	O&M
		6	Aircell Pipe Insulation on the hot water heating system. – 5 LM	O&M
		6	Aircell Pipe Insulation on the hot water heating system. – 0.8 LM	4 encapsulations
		4	ACM Debris (Magblock PI) on the ceiling area. – <1.0m2.	Clean-up
1027	Room 117	--	9"x9" Floor tile (green) – 27m2	O&M
		16	Fibreglass duct insulation with tar-paper layer on the duct system. – 4 LM	O&M
1028	Room 118A & 118B	--	9"x9" Floor tile (green) – 15m2	O&M
1029	Room 118	--	9"x9" Floor tile (green) – 67m2	O&M
1034	Printing Area	2	Mud Joint Compound Fitting on the chiller system. – 6 units	O&M
Second Floor				
2001	Rooms 214, 215, 216, 217, 220, 221, 222, 223, 224, 225	9	12"x12" Floor Tile (light gray with streaks) – 186 m2	O&M
2003	Janitors Closet Room 212	9	12"x12" Floor Tile (light gray with streaks) – 2 m2	O&M
2006	Hallway 200 & closets	16	Fibreglass duct insulation with tar-paper layer on the duct system. – 4 LM	O&M
2007	Room 207	16	Fibreglass duct insulation with tar-paper layer on the duct system. – 8 LM	O&M
2008	Room 206	16	Fibreglass duct insulation with tar-paper layer on the duct system. – 61 LM	O&M
2009	Rooms 201, 202, 202A, 202B, 203, 203A, 204	18	12"x12" Floor Tile (green) – 91m2	O&M
		16	Fibreglass duct insulation with tar-paper layer on the duct system. – 26 LM	O&M



Functional Space ID#	Location	Homo. Mat. #	Material Description and Quantity	Response Measure
SW02	Stairwell	14	Textured plaster on the wall. – 26m ²	O&M
SW03	Stairwell	16	Fibreglass duct insulation with tar-paper layer on the duct system. – 7 LM	O&M
PH01	Penthouse	7	Mud Joint Compound Fitting on the hot water heating system. – 8 units	O&M
		7	Mud Joint Compound Fitting on the hot water heating system. – 1 units	1 encapsulation
		7	Residual Mud Joint Compound Fitting on the hot water heating system. – 1 units	1 removal
		1	Mud Joint Compound Fitting on the chiller system. – 8 units	O&M
		2	Mud Joint Compound Fitting (with fibreglass PI) on the drain system. – 3 units	O&M
		7	ACM Debris (MJC fitting insulation) on the hot water heating system. – <1.0m ² .	Clean-up
EX01	Exterior	15	Exterior Finish on the wall. –1579m ²	O&M

LM – linear metre
Encap – Encapsulation

O&M – Operations & Maintenance
Homo. – Homogeneous Mat. -Materials

Asbestos was detected in eight 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.



Mag Block

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)

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. The ACM is the tar paper layer.





Exterior Finish

A representative photograph of exterior finishing material. This material is white / off-white and hard, with a cement-like appearance. Exterior finishing is a thin layer that is applied on top of the various structural materials that make up the exterior wall system.



Wall 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.



5.1.3 Non-Friable ACM



Transite Panel

A representative photograph of transite panel. Transite is a composite material made up of asbestos and cement that was a manufactured product at the time of installation. It was generally used in areas as a fire retardant. It is a rigid material that fractures when broken and may appear as other types of non-acm panel.



12"x12" Floor Tile

A representative photograph of 12" x 12" vinyl asbestos floor tile (VAT). This material may be found in any number of different colours and patterns. VAT's are normally quite 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's are required to be repaired or removed. In building M-59, 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 four paint finishes. Samples were collected from the painted interior surfaces of building M-59 and were 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	Room 132 (FS#1009)	Peach paint on wall.	2240	No
L02	Room 132 (FS#1009)	Bright yellow paint on floors.	3650	No
L03	Room 126 (FS#1014)	Pale green paint on walls & floors.	3320	No
L04	Room 126 (FS#1014)	Pale gray paint on wall.	2100	No
L05	Room 130 (FS#1012)	Tan paint on wall & pipes.	2160	No
L06	Room 106 (FS#1018)	Pale yellow paint on walls.	4980	No
L07	Room 106 (FS#1018)	Blue paint on doorframes.	1310	No
L08	Room 010 (FS#B004)	Plum paint on doorframes.	5430	Yes
L09	Room 011 (FS#B001)	Black paint on railing & stairs.	3800	No
L10	Room 011 (FS#B001)	Brilliant green paint on duct.	2940	No
L11	Room 011 (FS#B001)	Red paint on fire pipes.	1660	No
L12	Room 011 (FS#B001)	Medium gray paint on floor.	934	No
L13	Room 126 (FS#1014)	Yellow paint on gas pipes.	5400	Yes
L14	Room 126 (FS#1014)	Dark gray paint on door & trim	334	No

*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 plum paint on the doorframes of room 010 (FS#B004), and the bright yellow paint on the gas pipes in room 126 (FS#1014) contained greater than 5,000 ppm of lead and are therefore classified as lead-based paint. The remaining twelve samples did not contain greater than 5,000 ppm lead and are therefore classified as non-lead-based paints.



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 0.15 mg/m³. 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 843/90 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 0.15 milligram per cubic metre (mg/m³) 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 844/90. During demolition, ensure that the maximum concentration of exposure to airborne mercury does not exceed 0.03 mg Hg/m³ 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;
- Terra cotta and 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 0.20 mg/m³ 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 (3.0 mg/m^3). 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 (0.2 mg/m^3). 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, mould was suspect to be present on the ceiling tiles in four locations and on the duct insulation in two locations, respectively. Suspect mould locations were identified in the following functional space areas: B001, 1030 and 2006.

5.11.2 Survey Recommendations

Oakhill recommends that the mould be removed and insulating materials that may be used to re-insulate the chiller, domestic cold water and drain pipe insulation be re-evaluated to prevent future occurrences of mould growth.

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 February 27th to March 5th, 2009. 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.

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

APPENDIX A

DESIGNATED SUBSTANCES BACKGROUND INFORMATION

Acrylonitrile

Acrylonitrile is regulated in Ontario under Regulation 835/90 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 (4.3 mg/m³).

Arsenic

Arsenic is regulated in Ontario under Regulation 836/90 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 (0.2 mg/m³). 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 to asbestos depends on the type of asbestos, they include, amosite (0.1 f/cc), crocidolite (0.1 f/cc) and other forms of asbestos (1.0 f/cc). 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 839/90 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 3 mg/m³. 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 841/90 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^3 . 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 842/90 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 843/90 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 0.15 milligram per cubic metre (mg/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°C , as in welding and flame cutting or burning.

Mercury

Mercury is regulated in Ontario under Regulation 844/90 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 0.05 mg/m³.

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 845/90 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 0.20 mg/m³.

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 0.20 milligrams per cubic metre (mg/m³) 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 846/90 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 5.2 mg/m³.

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



Certificate of Analysis

AGAT WORK ORDER: 09T319928
PROJECT NO: PR-08-043

5835 COOPERS AVENUE
MISSISSAUGA, ON
CANADA L4Z 1Y2

PH: (905)712-5100
FAX: (905)712-5122
<http://www.agatlabs.com>

CLIENT NAME: OAKHILL ENVIRONMENTAL

ATTENTION TO: Fil Barillaro

Bulk Asbestos*

DATE SAMPLED: Feb 27, 2009			DATE RECEIVED: Mar 02, 2009			DATE REPORTED: Mar 06, 2009			SAMPLE TYPE: Other		
Unit	G / S	RDL	M59-1A 1238986	M59-2A 1238989	M59-3A 1238992	M59-3B 1238993	M59-3C 1238994	M59-4A 1238995	M59-5A 1238998	M59-6A 1239001	
Bulk Asbestos*	%	0.5	0.5	60	60	NAD	NAD	NAD	25	30	40
Unit	G / S	RDL	M59-7A 1239004	M59-8A 1239007	M59-8B 1239008	M59-8C 1239009	M59-9A 1239010	M59-10A 1239013	M59-10B 1239014	M59-10C 1239015	
Bulk Asbestos*	%	0.5	0.5	60	NAD	NAD	NAD	2	NAD	NAD	NAD

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

- 1238986-1238989 * Subcontracted Analysis
Asbestos Types: Chrysotile
- 1238992-1238994 * Subcontracted Analysis
NAD - No Asbestos Detected
- 1238995-1239004 * Subcontracted Analysis
Asbestos Types: Chrysotile
- 1239007-1239009 * Subcontracted Analysis
NAD - No Asbestos Detected
- 1239010 * Subcontracted Analysis
Asbestos Type: Chrysotile
- 1239013-1239015 * Subcontracted Analysis
NAD - No Asbestos Detected

Certified By:



Guideline Violation

AGAT WORK ORDER: 09T319928
PROJECT NO: PR-08-043

5835 COOPERS AVENUE
MISSISSAUGA, ON
CANADA L4Z 1Y2

PH: (905)712-5100
FAX: (905)712-5122
<http://www.agatlabs.com>

CLIENT NAME: OAKHILL ENVIRONMENTAL

ATTENTION TO: Fil Barillaro

SAMPLE ID	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	GUIDEVALUE	RESULT
1238986	OHSA - Reg. 278	Bulk Asbestos*	Bulk Asbestos*	0.5	60
1238989	OHSA - Reg. 278	Bulk Asbestos*	Bulk Asbestos*	0.5	60
1238995	OHSA - Reg. 278	Bulk Asbestos*	Bulk Asbestos*	0.5	25
1238998	OHSA - Reg. 278	Bulk Asbestos*	Bulk Asbestos*	0.5	30
1239001	OHSA - Reg. 278	Bulk Asbestos*	Bulk Asbestos*	0.5	40
1239004	OHSA - Reg. 278	Bulk Asbestos*	Bulk Asbestos*	0.5	60
1239010	OHSA - Reg. 278	Bulk Asbestos*	Bulk Asbestos*	0.5	2



Certificate of Analysis

AGAT WORK ORDER: 09T320745
PROJECT NO: PR-08-043

5835 COOPERS AVENUE
MISSISSAUGA, ON
CANADA L4Z 1Y2

PH: (905)712-5100
FAX: (905)712-5122
http://www.agatlabs.com

CLIENT NAME: OAKHILL ENVIRONMENTAL

ATTENTION TO: Fil Barillaro

Asbestos (Bulk)

DATE SAMPLED: Mar 03, 2009		DATE RECEIVED: Mar 05, 2009			DATE REPORTED: Mar 11, 2009				SAMPLE TYPE: Other		
	Unit	G / S	RDL	M59 - 11A 1241822	M59 - 11B 1241823	M59 - 11C 1241824	M59 - 12A 1241825	M59 - 13A 1241828	M59 - 13B 1241829	M59 - 13C 1241830	M59 - 13D 1241831
Asbestos (Bulk)	%	0.5	0.5	NAD	NAD	NAD	65%	NAD	NAD	NAD	NAD
	Unit	G / S	RDL	M59 - 13E 1241832	M59 - 13F 1241833	M59 - 13G 1241834	M59 - 14A 1241835	M59 - 15A 1241838	M59 - 16A 1241843		
Asbestos (Bulk)	%	0.5	0.5	NAD	NAD	NAD	2%	2%	60%		

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

- 1241822-1241824 Condition of sample was satisfactory at time of arrival in laboratory.
* Subcontracted Analysis
NAD - No Asbestos Detected
- 1241825 Condition of sample was satisfactory at time of arrival in laboratory.
* Subcontracted Analysis
Asbestos Type: Chrysotile
- 1241828-1241834 Condition of sample was satisfactory at time of arrival in laboratory.
* Subcontracted Analysis
NAD - No Asbestos Detected
- 1241835-1241838 Condition of sample was satisfactory at time of arrival in laboratory.
* Subcontracted Analysis
Asbestos Type: Chrysotile
- 1241843 Condition of sample was satisfactory at time of arrival in laboratory.
* Subcontracted Analysis
Asbestos Type: Chrysotile

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 09T322109
PROJECT NO: PR-08-043

5835 COOPERS AVENUE
MISSISSAUGA, ON
CANADA L4Z 1Y2

PH: (905)712-5100
FAX: (905)712-5122
<http://www.agatlabs.com>

CLIENT NAME: OAKHILL ENVIRONMENTAL

ATTENTION TO: Fil Barillaro

Bulk Asbestos*

DATE SAMPLED: Mar 09, 2009 DATE RECEIVED: Mar 13, 2009 DATE REPORTED: Mar 20, 2009 SAMPLE TYPE: Other

Parameter	Unit	G / S	RDL	M59-17A 1250862	M59-17B 1250863	M59-17C 1250864	M59-18A 1250865
Bulk Asbestos*	%	0.5	0.5	NAD	NAD	NAD	10

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

1250862-1250864 * Subcontracted Analysis
NAD - No Asbestos Detected

1250865 * Subcontracted Analysis
Asbestos Types: Chrysotile

Certified By:



Guideline Violation

AGAT WORK ORDER: 09T322109
PROJECT NO: PR-08-043

5835 COOPERS AVENUE
MISSISSAUGA, ON
CANADA L4Z 1Y2

PH: (905)712-5100
FAX: (905)712-5122
<http://www.agatlabs.com>

CLIENT NAME: OAKHILL ENVIRONMENTAL

ATTENTION TO: Fil Barillaro

SAMPLE ID	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	GUIDEVALUE	RESULT
1250865	OHSA - Reg. 278	Bulk Asbestos*	Bulk Asbestos*	0.5	10

APPENDIX C
ANALYTICAL RESULTS – LEAD



Certificate of Analysis

AGAT WORK ORDER: 09T319930
PROJECT NO: PR-08-043

5835 COOPERS AVENUE
MISSISSAUGA, ON
CANADA L4Z 1Y2

PH: (905)712-5100
FAX: (905)712-5122
<http://www.agatlabs.com>

CLIENT NAME: OAKHILL ENVIRONMENTAL

ATTENTION TO: Fil Barillaro

Lead in Paint

DATE SAMPLED: Feb 27, 2009			DATE RECEIVED: Mar 02, 2009			DATE REPORTED: Mar 10, 2009			SAMPLE TYPE: Paint		
	Unit	G / S	RDL	M59-L1 1238964	M59-L2 1238965	M59-L3 1238966	M59-L4 1238967	M59-L5 1238968	M59-L6 1238969	M59-L7 1238970	M59-L8 1238971
Lead	ug/g		10	2240	3650	3320	2100	2160	4980	1310	5430
	Unit	G / S	RDL	M59-L9 1238972	M59-L10 1238973	M59-L11 1238974	M59-L12 1238975	M59-L13 1238976	M59-L14 1238977		
Lead	ug/g		10	3800	2940	1660	934	5400	334		

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

Certified By:

APPENDIX D
PHOTOGRAPH LOGS

M59 ASBESTOS PHOTOGRAPH LOG

Photo #:	FS#:	Location:	Description:	Photograph
A2	B001	Room 011	Steam: One damaged section of Magblock pipe insulation requires one removal (0.5 LM).	
A3	B001	Room 011	Steam: Residual mud joint compound fitting insulation requires one removal (1 unit).	
A4	B001	Room 011	Steam: One damaged section of Magblock pipe insulation requires one encapsulation (0.4 LM).	
A5	B001	Room 011	HWH: One damaged mud joint compound fitting requires one encapsulation (1 unit).	
A6	B001	Room 011	HWH: ACM debris (aircell pipe insulation) on drain system requires clean-up (<1.0 m2).	

A7	B001	Room 011	Drain: One damaged mud joint compound fitting (with Sweatwrap pipe insulation) requires one encapsulation (1 unit).	
A8	B001	Room 011	HWH: One damaged section of aircell pipe insulation requires one encapsulation (0.4 LM).	
A9	B001	Room 011	DHW: One damaged mud joint compound fitting requires one encapsulation (1 unit).	
A10	B001	Room 011	DHW: One damaged mud joint compound fitting requires one removal (1 unit).	
A11	B001	Room 011	DHW: ACM debris (mud joint compound fitting insulation) on electrical box requires clean-up (<1.0 m2).	
A12	B001	Room 011	DHW: One damaged section of aircell pipe insulation requires one encapsulation (0.4 LM).	

A14	B001	Room 011	DHW: ACM debris (aircell pipe insulation) on drain system requires clean up (<1.0 m2).	
A15	PH01	Penthouse	HWH: One damaged mud joint compound fitting requires one encapsulation (1 unit).	
A16	PH01	Penthouse	HWH: Residual mud joint compound fitting insulation requires one removal (1 unit).	
A17	PH01	Penthouse	HWH: ACM debris (mud joint compound fitting) on hot water heating system requires clean up (<1.0 m2).	
A18	B001	Room 011	Drain: One damaged mud joint compound fitting (with Sweatwrap pipe insulation) requires one removal (1 unit).	
A19	B001	Room 011	Drain: One damaged mud joint compound fitting (with Sweatwrap pipe insulation) requires one encapsulation (1 unit).	

A20	B001	Room 011	HWH: One damaged section of aircell pipe insulation requires one encapsulation (0.2 LM).	
A21	B001	Room 011	Drain: One damaged mud joint compound fitting (with Sweatwrap pipe insulation) requires one removal (1 unit).	
A22	B001	Room 011	HWH: One damaged section of aircell pipe insulation requires one encapsulation (0.6 LM).	
A23	B001	Room 011	Steam: One damaged section of Magblock pipe insulation requires one encapsulation (0.2 LM).	
A24	B001	Room 011	DCW: One open end of aircell pipe insulation requires one encapsulation (0.2 LM).	
A25	B001	Room 011	DHW: One open end of aircell pipe insulation requires one encapsulation (0.4 LM).	

A26	B001	Room 011	Steam: One damaged section of Magblock pipe insulation requires one encapsulation (0.4 LM).	
A27	B001	Room 011	Condensate: One damaged section of aircell pipe insulation requires one encapsulation (0.4 LM).	
A28	B001	Room 011	HWH: One damaged mud joint compound fitting requires one encapsulation (1 unit).	
A29	B001	Room 011	DHW: One damaged mud joint compound fitting requires one encapsulation (1 unit).	
A30	B001	Room 011	Condensate: One open end of aircell pipe insulation requires one encapsulation (0.2 LM).	
A31	B001	Room 011	DCW: One open end of aircell pipe insulation requires one encapsulation (0.2 LM).	

A32	B001	Room 011	Steam: One damaged mud joint compound fitting requires one encapsulation (1 unit).	
A33	B001	Room 011	HWH: One damaged mud joint compound fitting requires one encapsulation (1 unit).	
A34	B001	Room 011	HWH: One damaged mud joint compound fitting requires one encapsulation (1 unit).	
A35	B001	Room 011	HWH: One damaged section of aircell pipe insulation requires one encapsulation (0.4 LM).	
A36	B001	Room 011	HWH: One damaged mud joint compound fitting requires one encapsulation (1 unit).	
A37	B001	Room 011	Steam: One damaged section of aircell pipe insulation requires one encapsulation (0.6 LM).	

A38	B001	Room 011	DCW: One damaged mud joint compound fitting requires one encapsulation (1 unit).	
A39	B001	Room 011	DCW: One open end of aircell pipe insulation requires one encapsulation (0.2 LM).	
A41	B001	Room 011	Steam: One damaged section of Magblock pipe insulation requires one encapsulation (0.4 LM).	
A42	B001	Room 011	DHW: One damaged section of aircell pipe insulation requires one encapsulation (0.4 LM).	
A44	B001	Room 011	DHW: One open end of aircell pipe insulation requires one encapsulation (0.2 LM).	
A45	B001	Room 011	Steam: Two damaged sections of aircell pipe insulation require two encapsulations (0.8 LM).	

A46	B001	Room 011	Steam: One open end of Magblock pipe insulation requires one encapsulation (0.2 LM).	
A47	B001	Room 011	Drain: One damaged mud joint compound fitting (fiberglass pipe insulation with tar paper layer) requires one encapsulation (1 unit).	
A48	B001	Room 011	Drain: ACM debris (mud joint compound fitting) on duct requires clean up (<1.0 m2).	
A49	B001	Room 011	DHW: One damaged section of aircell pipe insulation requires one encapsulation (0.4 LM).	
A50	B006	Room 015	HWH: One damaged section of aircell pipe insulation requires one encapsulation (0.2 LM).	
A51	B006	Room 015	HWH: Two damaged sections of aircell pipe insulation require two encapsulations (1 LM).	

A52	B006	Room 015	HWH: ACM debris (mud joint compound fitting) on floor requires clean up (<1.0 m2).	
A53	B006	Room 015	Condensate: One damaged section of aircell pipe insulation requires one encapsulation (0.2 LM).	
A54	B006	Room 015	Condensate: One damaged section of aircell pipe insulation requires one encapsulation (0.4 LM).	
A55	B006	Room 015	HWH: One damaged section of aircell pipe insulation requires one encapsulation (0.2 LM).	
A56	B006	Room 015	Condensate: One damaged section of aircell pipe insulation requires one encapsulation (0.2 LM).	
A57	B006	Room 015	Condensate: One damaged mud joint compound fitting requires one encapsulation (1 unit).	

A58	B006	Room 015	Steam: One damaged section of Magblock pipe insulation requires one encapsulation (0.4 LM).	
A59	B006	Room 015	Steam: ACM debris (mud joint compound fitting) on floor requires clean up (<1.0 m2).	
A60	B006	Room 015	DHW: Two damaged sections of aircell pipe insulation require two removals (4.0 LM).	
A61	B006	Room 015	HWH: Two damaged sections of aircell pipe insulation require two encapsulations (0.8 LM).	
A62	B006	Room 015	HWH: One damaged section of aircell pipe insulation requires one encapsulation (0.2 LM).	
A63	B006	Room 015	HWH: One damaged section of aircell pipe insulation requires one encapsulation (0.2 LM).	

A64	B006	Room 015	HWH: One damaged section of aircell pipe insulation requires one encapsulation (0.4 LM).	
A65	B006	Room 015	HWH: One damaged section of aircell pipe insulation requires one encapsulation (0.4 LM).	
A66	B006	Room 015	HWH: One damaged section of aircell pipe insulation requires one encapsulation (0.4 LM).	
A67	B006	Room 015	HWH: One damaged section of aircell pipe insulation requires one encapsulation (0.4 LM).	
A68	B006	Room 015	HWH: ACM debris (aircell pipe insulation) on floor requires clean up (<1.0 m2).	
A69	B006	Room 015	Unknown: ACM debris (aircell pipe insulation) on floor requires clean up (>1.0 m2).	

A70	B006	Room 015	Unknown: ACM debris (aircell pipe insulation) on floor requires clean up (>1.0 m2).	
A71	B006	Room 015	DHW: ACM debris (aircell pipe insulation) on floor requires clean up (>1.0 m2).	
A72	B006	Room 015	HWH: ACM debris (aircell pipe insulation) on floor requires clean up (>1.0 m2).	
A73	B006	Room 015	HWH: ACM debris (aircell pipe insulation and mud joint compound fittings) on floor requires clean up (>1.0 m2).	
A74	B006	Room 015	HWH: ACM debris (aircell pipe insulation and mud joint compound fittings) on floor requires clean up (>1.0 m2).	
A75	B006	Room 015	HWH: ACM debris (aircell pipe insulation and mud joint compound fittings) on floor requires clean up (>1.0 m2).	

A76	B006	Room 015	HWH: ACM debris (aircell pipe insulation and mud joint compound fittings) on floor requires clean up (>1.0 m2).	
A77	B006	Room 015	HWH: One damaged section of aircell pipe insulation requires one encapsulation (0.2 LM).	
A78	B006	Room 015	HWH: One damaged section of aircell pipe insulation requires one encapsulation (0.2 LM).	
A79	B006	Room 015	HWH: One damaged section of aircell pipe insulation requires one encapsulation (0.2 LM).	
A80	B006	Room 015	HWH: One damaged section of aircell pipe insulation requires one encapsulation (0.2 LM).	
A81	B006	Room 015	HWH: One damaged section of aircell pipe insulation requires one encapsulation (1.5 LM).	

A82	B006	Room 015	HWH: One damaged section of aircell pipe insulation requires one encapsulation (0.2 LM).	
A83	B006	Room 015	HWH: One damaged section of aircell pipe insulation requires one encapsulation (0.2 LM).	
A84	B006	Room 015	HWH: One damaged mud joint compound fitting requires one encapsulation (1 unit).	
A85	B006	Room 015	HWH: One damaged section of aircell pipe insulation requires one encapsulation (0.2 LM).	
A86	B006	Room 015	HWH: One damaged mud joint compound fitting requires one encapsulation (1 unit).	
A87	B006	Room 015	HWH: One damaged section of aircell pipe insulation requires one encapsulation (0.2 LM).	

A88	B006	Room 015	DCW: One damaged mud joint compound fitting requires one encapsulation (1 unit).	
A89	B006	Room 015	DHW: Two damaged sections of aircell pipe insulation require two encapsulations (0.4 LM).	
A90	B006	Room 015	DHW: Two damaged sections of aircell pipe insulation require two encapsulations (0.4 LM).	
A93	B006	Room 015	HWH: One damaged section of aircell pipe insulation requires one encapsulation (0.6 LM).	
A94	B006	Room 015	HWH: One damaged section of aircell pipe insulation requires one encapsulation (0.2 LM).	
A95	B006	Room 015	Steam: One damaged section of Magblock pipe insulation requires one encapsulation (2.0 L).	

A96	B006	Room 015	DCW: One damaged mud joint compound fitting requires one removal (1 unit).	
A97	B006	Room 015	Steam: One damaged section of Magblock pipe insulation requires one encapsulation (0.6 L).	
A98	B006	Room 015	Steam: One damaged section of Magblock pipe insulation requires one encapsulation (0.2 L).	
A99	B006	Room 015	HWH: One damaged section of aircell pipe insulation requires one encapsulation (0.6 LM).	
A100	B006	Room 015	HWH: One damaged section of aircell pipe insulation requires one encapsulation (0.2 LM).	
A101	B006	Room 015	DHW: One damaged section of aircell pipe insulation requires one encapsulation (0.2 LM).	

A102	B006	Room 015	DHW: One damaged section of aircell pipe insulation requires one encapsulation (0.2 LM).	
A103	B006	Room 015	DHW: One damaged section of aircell pipe insulation requires one encapsulation (0.2 LM).	
A104	B006	Room 015	DHW: One open end of aircell pipe insulation requires one encapsulation (0.2 LM).	
A105	B006	Room 015	Condensate: One open end of aircell pipe insulation requires one encapsulation (0.2 LM).	
A106	B006	Room 015	DHW: One open end of aircell pipe insulation requires one encapsulation (0.2 LM).	
A107	B006	Room 015	DHW: One damaged section of aircell pipe insulation requires one encapsulation (0.6 LM).	

A108	B006	Room 015	Condensate: Residual mud joint compound fitting requires one removal (1 unit).	
A109	B006	Room 015	DCW: One damaged mud joint compound fitting requires one removal (1 unit).	
A110	B006	Room 015	DCW: One damaged mud joint compound fitting requires one removal (1 unit).	
A111	B006	Room 015	DHW: One damaged mud joint compound fitting requires one removal (1 unit).	
A112	B006	Room 015	DHW: One damaged section of aircell pipe insulation requires one encapsulation (0.4 LM).	
A113	B006	Room 015	DHW: One open end of aircell pipe insulation requires one encapsulation (0.4 LM).	

A114	B006	Room 015	DHW: One open end of aircell pipe insulation requires one encapsulation (0.2 LM).	
A115	B006	Room 015	DHW: One open end of aircell pipe insulation requires one encapsulation (0.2 LM).	
A116	B006	Room 015	DHW: One open end of aircell pipe insulation requires one encapsulation (0.2 LM).	
A117	B006	Room 015	Air: One damaged section of aircell pipe insulation requires one removal (0.4 LM).	
A118	B006	Room 015	Gas: One damaged section of aircell pipe insulation requires one removal (0.4 LM).	
A120	B006	Room 015	DHW: One damaged section of aircell pipe insulation requires one encapsulation (0.4 LM).	

A121	B006	Room 015	DHW: One damaged section of aircell pipe insulation requires one encapsulation (0.2 LM).	
A124	B006	Room 015	DHW: One damaged section of aircell pipe insulation requires one encapsulation (0.2 LM).	
A125	B006	Room 015	DHW: One damaged section of aircell pipe insulation requires one encapsulation (0.2 LM).	
A129	B008	Room 017	DHW: One damaged section of aircell pipe insulation requires one encapsulation (0.4 LM).	
A130	B008	Room 017	DHW: One damaged section of aircell pipe insulation requires one encapsulation (0.2 LM).	
A131	1001	Room 137	Drain: ACM debris (mud joint compound fitting) on floor requires clean up (<1.0 m2).	

A132	1001	Room 137	Drain: One damaged mud joint compound fitting requires one removal (1 unit).	
A137	1002	Room 136	DCW: One damaged mud joint compound fitting requires one removal (1 unit).	
A138	1002	Room 136	DCW: ACM debris (mud joint compound fitting) on door requires clean up (<1.0 m2).	
A140	1007	Rooms 133 & 122A	DHW: Two damaged sections of aircell pipe insulation require two encapsulations (1.0 LM).	
A141	1007	Rooms 133 & 122A	DCW: One open end of aircell pipe insulation requires one removal (0.2 LM).	
A143	1007	Rooms 133 & 122A	Steam: One damaged section of Magblock pipe insulation requires one encapsulation (0.6 LM).	

A144	1007	Rooms 133 & 122A	DHW: One damaged section of aircell pipe insulation requires one encapsulation (0.4 LM).	
A145	1007	Rooms 133 & 122A	Steam: One damaged section of Magblock pipe insulation requires one encapsulation (0.6 LM).	
A146	1007	Rooms 133 & 122A	Steam: One damaged section of Magblock pipe insulation requires one encapsulation (0.6 LM).	
A147	1007	Rooms 133 & 122A	Drain: One damaged mud joint compound fitting requires one encapsulation (1 unit).	
A149	1007	Rooms 133 & 122A	Drain: One damaged mud joint compound fitting requires one encapsulation (1 unit).	
A150	1007	Rooms 133 & 122A	DHW: One damaged mud joint compound fitting requires one removal (1 unit).	

A151	1007	Rooms 133 & 122A	DCW: One damaged mud joint compound fitting requires one removal (1 unit).	
A152	1007	Rooms 133 & 122A	Steam: One damaged mud joint compound fitting requires one encapsulation (1 unit).	
A153	1007	Rooms 133 & 122A	Steam: One damaged section of Magblock pipe insulation requires one encapsulation (0.6 LM).	
A155	1009	Room 132	DHW: One damaged section of aircell pipe insulation requires one encapsulation (0.4 LM).	
A157	1009	Room 132	DHW: One damaged section of aircell pipe insulation requires one encapsulation (0.4 LM).	
A158	1009	Room 132	HWH: One open end of aircell pipe insulation requires one encapsulation (0.2 LM).	

A159	1011	Room 131	HWH: One open end of aircell pipe insulation requires one encapsulation (0.2 LM).	
A160	1011	Room 131	Drain: One damaged mud joint compound fitting requires one encapsulation (1 unit).	
A161	1012	Room 130	HWH: One open end of aircell pipe insulation requires one encapsulation (0.2 LM).	
A162	1012	Room 130	HWH: One damaged mud joint compound fitting requires one encapsulation (1 unit).	
A163	1012	Room 130	HWH: One damaged mud joint compound fitting requires one encapsulation (1 unit).	
A164	1012	Room 130	DHW: One damaged mud joint compound fitting requires one encapsulation (1 unit).	

A165	1012	Room 130	DHW: One damaged mud joint compound fitting requires one encapsulation (1 unit).	
A166	1012	Room 130	DCW: One damaged mud joint compound fitting requires one encapsulation (1 unit).	
A167	1012	Room 130	Drain: One damaged mud joint compound fitting requires one removal (1 unit).	
A168	1013	Hallway	Unknown: Two damaged sections of aircell pipe insulation require two removals (0.8 LM).	
A170	1013	Hallway	Unknown: ACM debris (aircell pipe insulation and mud joint compound fitting insulation) on ceiling requires clean up (<1.0 m2).	
A171	1013	Hallway	Unknown: ACM debris (mud joint compound fitting insulation) on ceiling requires clean up (<1.0 m2).	

A172	1013	Hallway	HWH: ACM debris (aircell pipe insulation) on domestic hot water system requires clean up (<1.0 m2).	
A173	1013	Hallway	HWH: ACM debris (mud joint compound fitting insulation) on ceiling requires clean up (<1.0 m2).	
A174	1013	Hallway	DHW: Two damaged sections of aircell pipe insulation require two removals (12.2 LM).	
A176	1013	Hallway	DHW: Open end of aircell pipe insulation requires one encapsulation (0.2 LM).	
A177	1013	Hallway	DCW: One damaged mud joint compound fitting requires one removal (1 unit).	
A178	1013	Hallway	Unknown: ACM debris (aircell pipe insulation) on ceiling requires clean up (<1.0 m2).	

A179	1013	Hallway	Unknown: ACM debris (mud joint compound fitting insulation) on ceiling requires clean up (<1.0 m2).	
A180	1013	Hallway	HWH: One damaged mud joint compound fitting requires one encapsulation (1 unit).	
A181	1013	Hallway	HWH: One open end of aircell pipe insulation requires one encapsulation (0.2 LM).	
A182	1013	Hallway	HWH: One open end of aircell pipe insulation requires one encapsulation (0.2 LM).	
A183	1013	128	Unknown: ACM debris (aircell pipe insulation) on wall requires clean up (<1.0 m2).	
A184	1013	128	HWH: One damaged section of aircell pipe insulation requires one encapsulation (1 LM).	

A185	1013	128	Unknown: One damaged section of aircell pipe insulation requires one removal (0.4 LM).	
A186	1013	128	Unknown: ACM debris (aircell pipe insulation) on wall requires clean up (<1.0 m2).	
A187	1013	128	Unknown: ACM debris (aircell pipe insulation) on ceiling requires clean up (<1.0 m2).	
A188	1014	126	Condensate: One open end of aircell pipe insulation requires one encapsulation (0.2 LM).	
A189	1014	126	Steam: One open end of Magblock pipe insulation requires one encapsulation (0.2 LM). Condensate: One damaged mud joint compound fitting requires one encapsulation (1 unit).	
A190	1014	126	Steam: One damaged mud joint compound fitting requires one encapsulation (1 unit).	

A191	1014	126	Condensate: Two damaged mud joint compound fittings require two encapsulations (2 units).	
A192	1014	126	Condensate: One damaged mud joint compound fitting requires one encapsulation (1 unit).	
A193	1014	126	Condensate: One damaged section of aircell pipe insulation requires one encapsulation (0.4 LM).	
A194	1014	126	Condensate: One damaged mud joint compound fitting requires one encapsulation (1 unit). Steam: One damaged mud joint compound fitting requires one encapsulation (1 unit).	
A195	1014	126	Condensate: One damaged mud joint compound fitting requires one encapsulation (1 unit). Condensate: One open end of aircell pipe insulation requires one encapsulation (0.2 LM).	
A196	1014	126	Steam: One damaged section of Magblock pipe insulation requires one encapsulation (0.4 LM).	

A197	1014	126	Steam: One damaged section of Magblock pipe insulation requires one encapsulation (0.4 LM).	
A198	1014	126	Steam: One damaged section of Magblock pipe insulation requires one removal (1.0 LM).	
A199	1014	126	Condensate: One damaged mud joint compound fitting requires one encapsulation (1 unit).	
A200	1018	106	Steam: One damaged section of Magblock pipe insulation requires one encapsulation (0.2 LM). Steam: One open end of Magblock pipe insulation requires one encapsulation (0.2 LM).	
A201	1018	106	Steam: One damaged section of Magblock pipe insulation requires one encapsulation (0.2 LM).	
A202	1018	106	Steam: One damaged section of Magblock pipe insulation requires one encapsulation (0.2 LM).	

A203	1018	106	Steam: One open end of Magblock pipe insulation requires one encapsulation (0.2 LM).	
A204	1018	106	Condensate: One open end of Magblock pipe insulation requires one encapsulation (0.2 LM).	
A205	1018	106	Condensate: One damaged mud joint compound fitting requires one encapsulation (1 unit).	
A206	1023	113	HWH: Two open ends of aircell pipe insulation require two encapsulations (0.4 LM).	
A207	1023	113	HWH: One damaged section of aircell pipe insulation requires one encapsulation (0.2 LM).	
A208	1024	114	HWH: One open end of aircell pipe insulation requires one encapsulation (0.2 LM).	

A209	1024	114	HWH: One damaged section of Magblock pipe insulation requires one encapsulation (0.2 LM).	
A210	1024	114	HWH: One damaged section of Magblock pipe insulation requires one removal (0.5 LM).	
A211	1024	114	HWH: One damaged section of Magblock pipe insulation requires one encapsulation (0.2 LM).	
A212	1026	115	HWH: One open end of aircell pipe insulation requires one encapsulation (0.2 LM).	
A213	1026	115	HWH: One open end of aircell pipe insulation requires one encapsulation (0.2 LM). HWH: One damaged section of Magblock pipe insulation requires one removal (0.2 LM).	
A214	1026	115	HWH: One damaged section of aircell pipe insulation requires one encapsulation (0.2 LM).	

A215	1026	115	HWH: One damaged section of aircell pipe insulation requires one encapsulation (0.2 LM).	
A216	1026	115	HWH: One damaged section of Magblock pipe insulation requires one encapsulation (0.2 LM).	
A217	1026	115	ACM Debris (Magblock PI) on ceiling requires clean up (<1.0 m2).	
A218	1026	115	ACM Debris (MJC FI) on ceiling requires clean up (<1.0 m2).	
A219	1026	115 Hallway	DI: One damaged section of fiberglass duct insulation (with tar paper layer) requires one encapsulation (0.6 LM).	
A220	B001	11	DI: One damaged section of fiberglass duct insulation (with tar paper layer) requires one encapsulation (1.0 LM).	

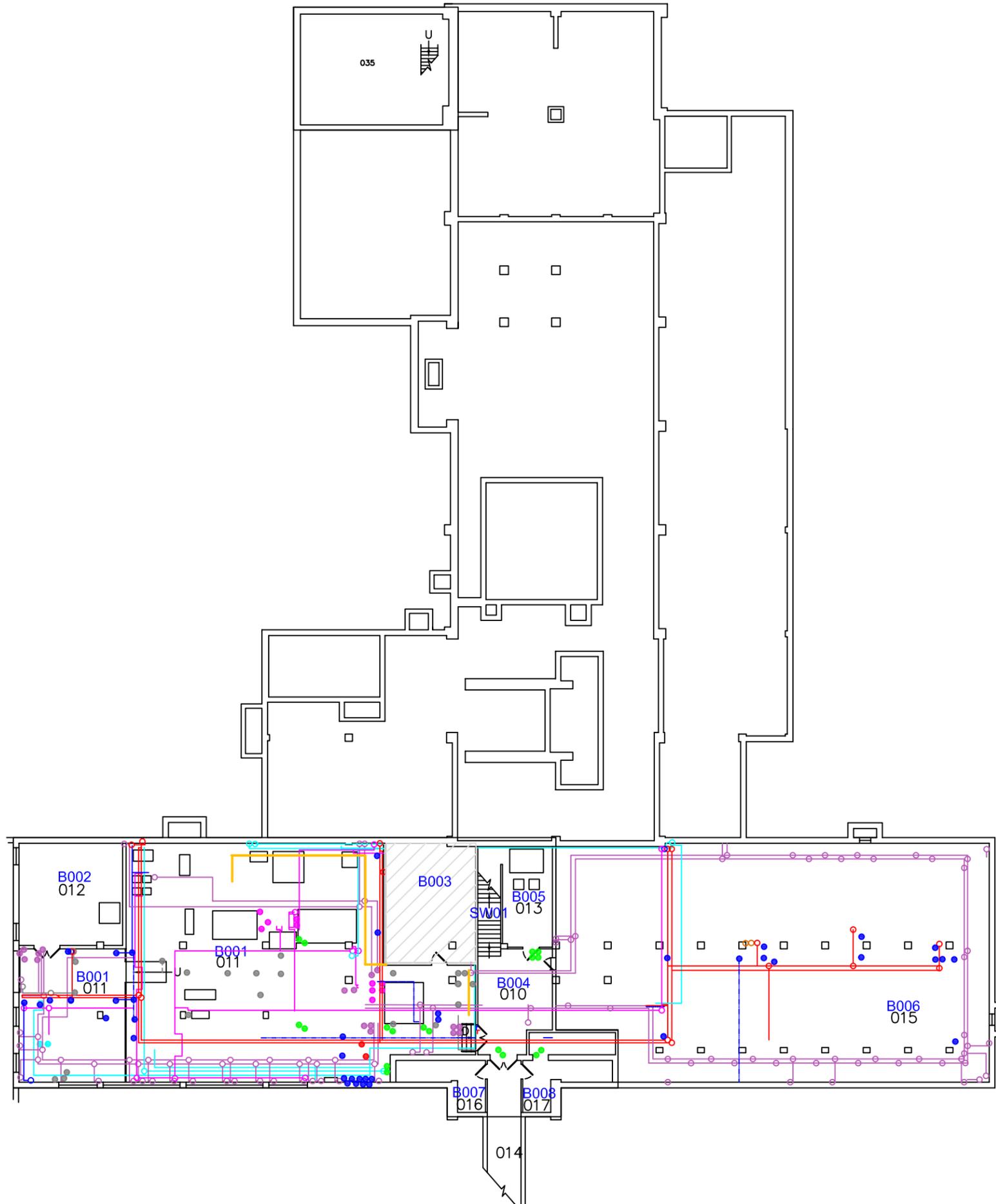
M59 LEAD PHOTOGRAPH LOG

Photo #:	FS#:	Location:	Description:	Photograph:
L08	B004	Room 010	Plum paint on the doorframes.	
L13	1014	Room 126	Yellow paint on the gas pipes.	

M59 MOULD PHOTOGRAPH LOG

Photo #:	FS#:	Location:	Description:	Photograph:
M1	1030	Room 119	Suspect mould on the ceiling tile (3 locations).	
M2	2006	Closet	Suspect mould on the ceiling tile (1 location).	
M3	B001	11	Suspect mould on the duct system (2 locations).	

APPENDIX E
FLOOR PLANS



OAKHILL
ENVIRONMENTAL

LEGEND

- 1001 FUNCTIONAL SPACE #
- ACM PIPE INSULATION: STEAM
- ACM PIPE INSULATION: CONDENSATE
- ACM PIPE INSULATION: HW HEATING
- ACM PIPE INSULATION: DOMESTIC CW
- ACM PIPE INSULATION: DOMESTIC HW
- ACM PIPE INSULATION: DUCT
- ACM PIPE INSULATION: AIR & GAS
- ACM FITTING INSULATION: STEAM
- ACM FITTING INSULATION: CONDENSATE
- ACM FITTING INSULATION: HW HEATING
- ACM FITTING INSULATION: DOMESTIC CW
- ACM FITTING INSULATION: DOMESTIC HW
- ACM FITTING INSULATION: CHILLER
- ACM FITTING INSULATION: DRAIN
- AREA NOT INSPECTED (INACCESSIBLE)

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: t's, valves, ends, hangers, etc.

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OTTAWA, ON, K1A 0R6

PROJECT

DESIGNATED SUBSTANCES SURVEY
BUILDING M-59

PROJECT NO.

PR-08-43

DATE

MARCH 2009

SCALE

NTS

TITLE

**-BASEMENT-
ASBESTOS
LOCATIONS**

SHEET

B-1



LEGEND

- 1001 FUNCTIONAL SPACE #
- ▲ DAMAGED ACM LOCATION
- P# PHOTOGRAPH #
- ▲ ACM DEBRIS
- ACM PIPE INSULATION: STEAM
- ACM PIPE INSULATION: CONDENSATE
- ACM PIPE INSULATION: HW HEATING
- ACM PIPE INSULATION: DOMESTIC CW
- ACM PIPE INSULATION: DOMESTIC HW
- ACM PIPE INSULATION: DUCT
- ACM PIPE INSULATION: AIR & GAS
- ACM FITTING INSULATION: STEAM
- ACM FITTING INSULATION: CONDENSATE
- ACM FITTING INSULATION: HW HEATING
- ACM FITTING INSULATION: DOMESTIC CW
- ACM FITTING INSULATION: DOMESTIC HW
- ACM FITTING INSULATION: CHILLER
- ACM FITTING INSULATION: DRAIN
- ▨ AREA NOT INSPECTED (INACCESSIBLE)

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: t's, valves, ends, hangers, etc.

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PROJECT
 DESIGNATED SUBSTANCES SURVEY
 BUILDING M-59

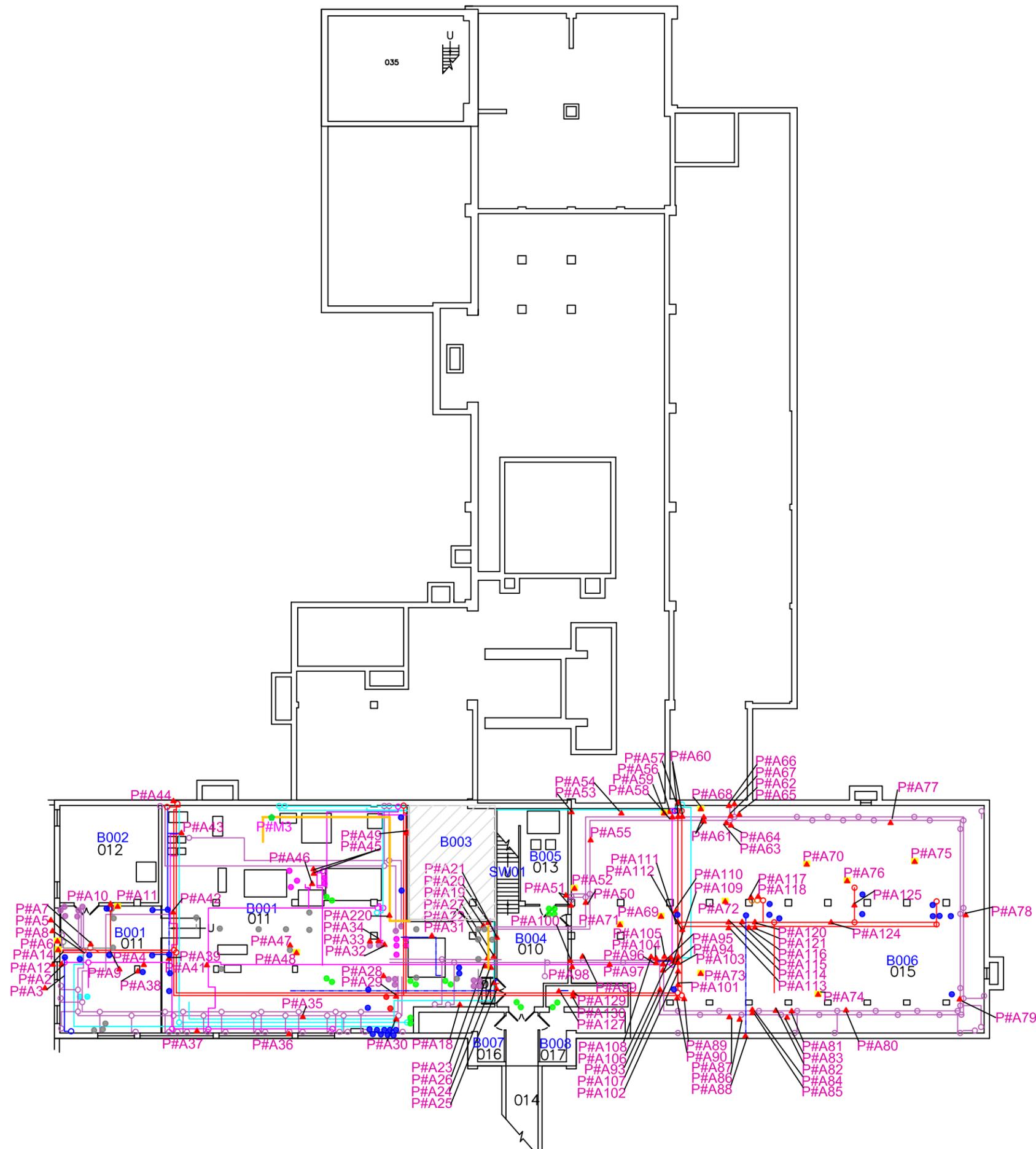
PROJECT NO.
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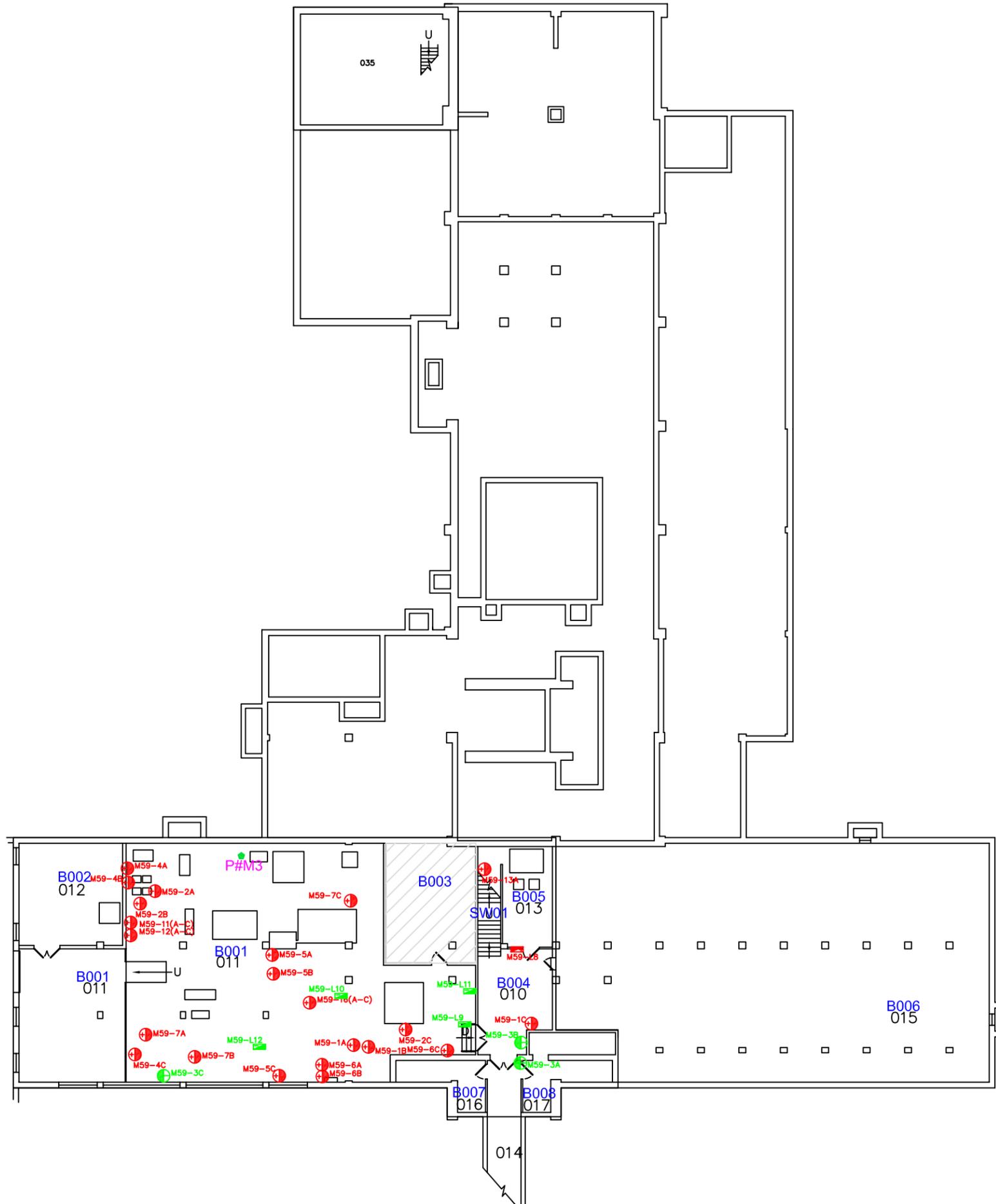
DATE
 MARCH 2009

SCALE
 NTS

TITLE
**-BASEMENT-
 ASBESTOS
 SURVEY**

SHEET
B-2





OAKHILL
ENVIRONMENTAL

LEGEND

- 1001 FUNCTIONAL SPACE #
- SAMPLE LOCATION: NON-ACM
- ⊕ SAMPLE LOCATION: ACM
- ⊕ SUSPECT MOULD LOCATIONS
- P# PHOTOGRAPH #
- SAMPLE LOCATION: NON-LEAD
- SAMPLE LOCATION: LEAD

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: t's, valves, ends, hangers, etc.

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PROJECT
DESIGNATED SUBSTANCES SURVEY
BUILDING M-59

PROJECT NO.
PR-08-43

DATE
MARCH 2009

SCALE
NTS

TITLE
**-BASEMENT-
SAMPLE &
MOULD
LOCATIONS**

SHEET
B-3



LEGEND

- 1001 FUNCTIONAL SPACE #
- ACM PIPE INSULATION: STEAM
- ACM PIPE INSULATION: CONDENSATE
- ACM PIPE INSULATION: HW HEATING
- ACM PIPE INSULATION: DOMESTIC CW
- ACM PIPE INSULATION: DOMESTIC HW
- ACM PIPE INSULATION: DUCT
- ACM FITTING INSULATION: STEAM
- ACM FITTING INSULATION: CONDENSATE
- ACM FITTING INSULATION: HW HEATING
- ACM FITTING INSULATION: DOMESTIC CW
- ACM FITTING INSULATION: DOMESTIC HW
- ACM FITTING INSULATION: CHILLER
- ACM FITTING INSULATION: DRAIN
- ACM FLOOR TILE: 12"x12"
- ACM FLOOR TILE: 9"x9"
- ACM TEXTURED PLASTER
- AREA NOT INSPECTED (INACCESSIBLE)

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: f's, valves, ends, hangers, etc.

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 DESIGNATED SUBSTANCES SURVEY
 BUILDING M-59

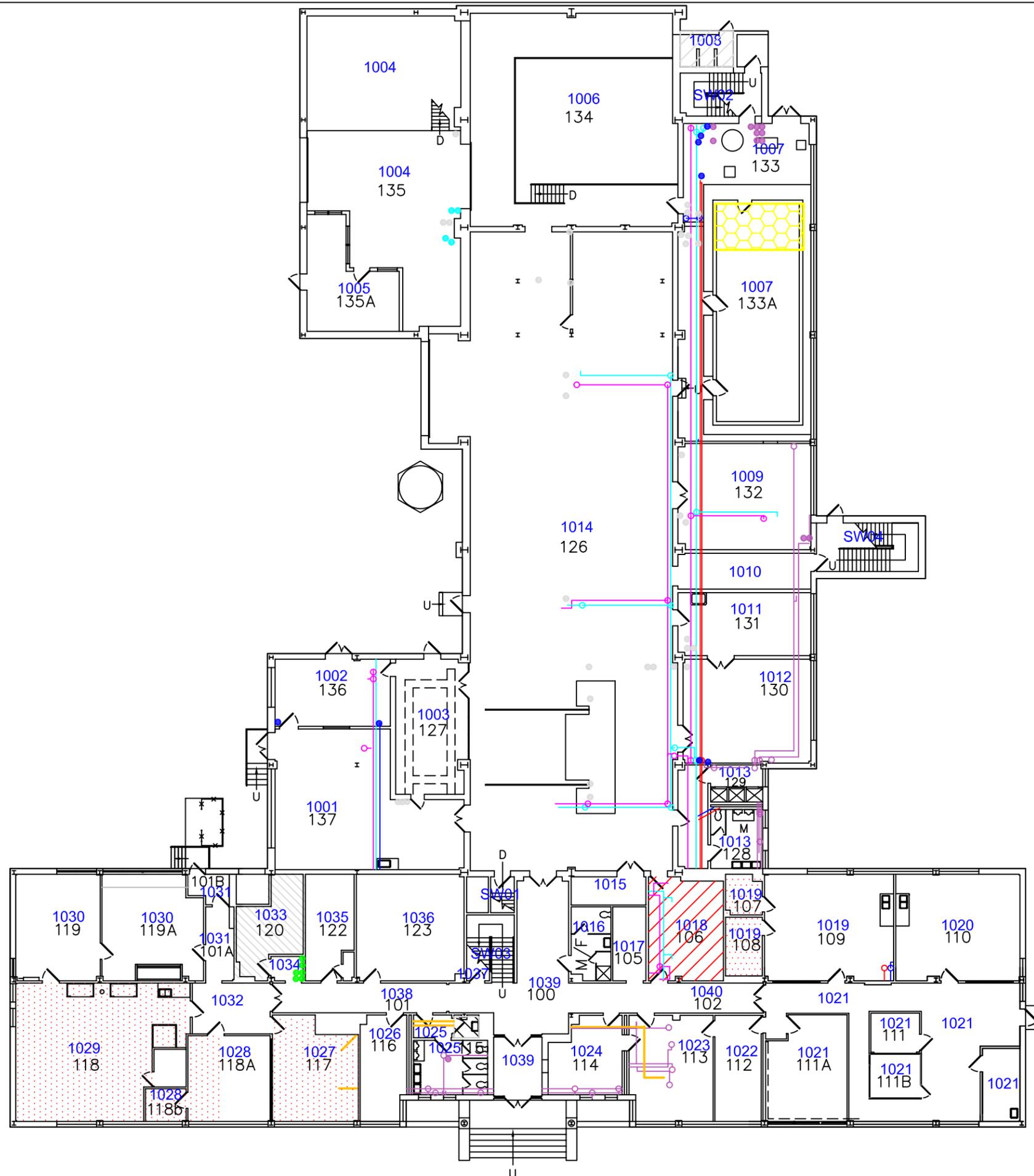
PROJECT NO.
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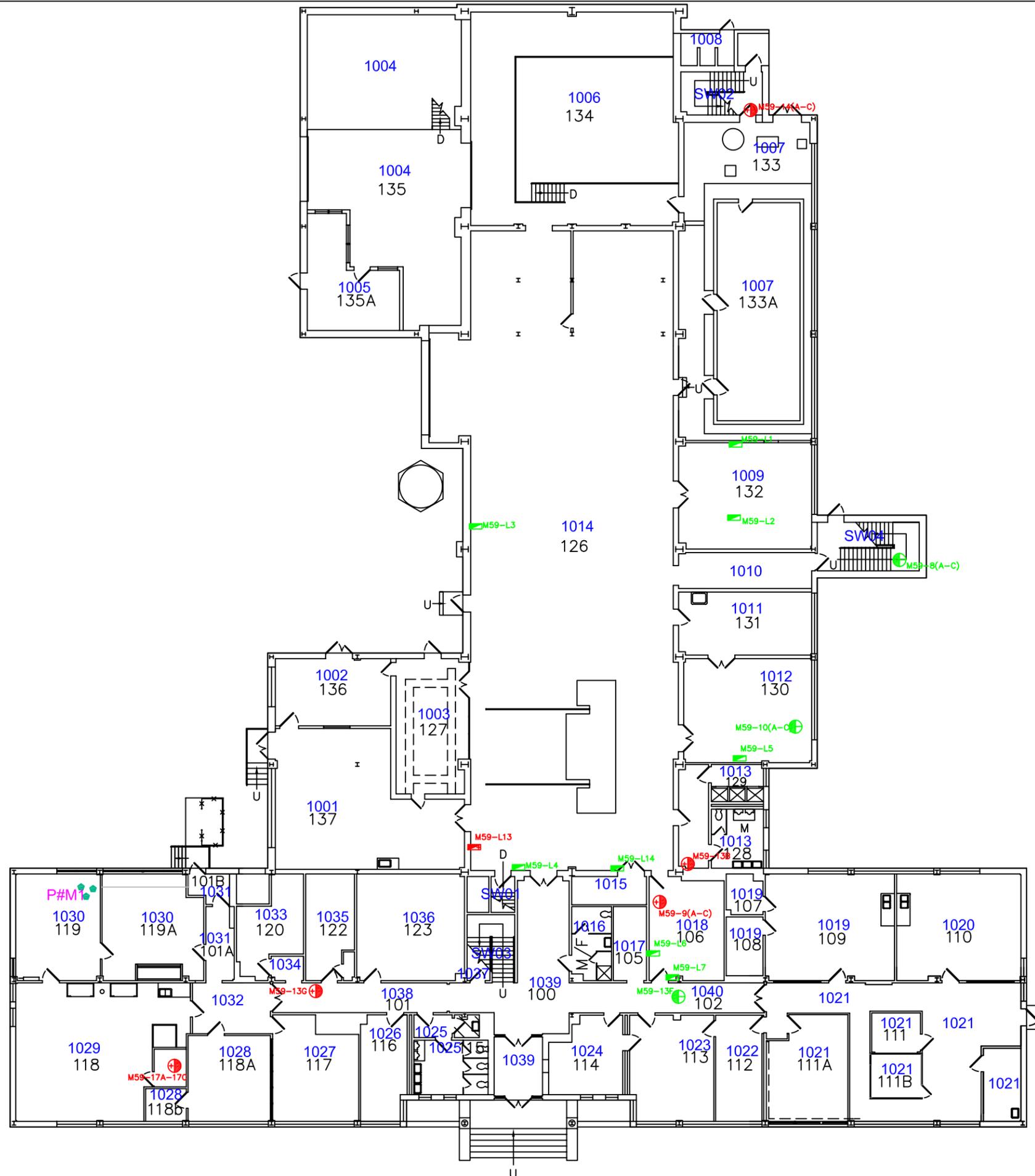
DATE
 MARCH 2009

SCALE
 NTS

TITLE
**-FIRST FLOOR-
 ASBESTOS
 LOCATIONS**

SHEET
1-1





LEGEND

- 1001 FUNCTIONAL SPACE #
- SAMPLE LOCATION: NON-ACM
- SAMPLE LOCATION: ACM
- SUSPECT MOULD LOCATIONS
- P# PHOTOGRAPH #
- SAMPLE LOCATION: NON-LEAD
- SAMPLE LOCATION: LEAD

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 t's, valves, ends, hangers, etc.

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 BUILDING M-59

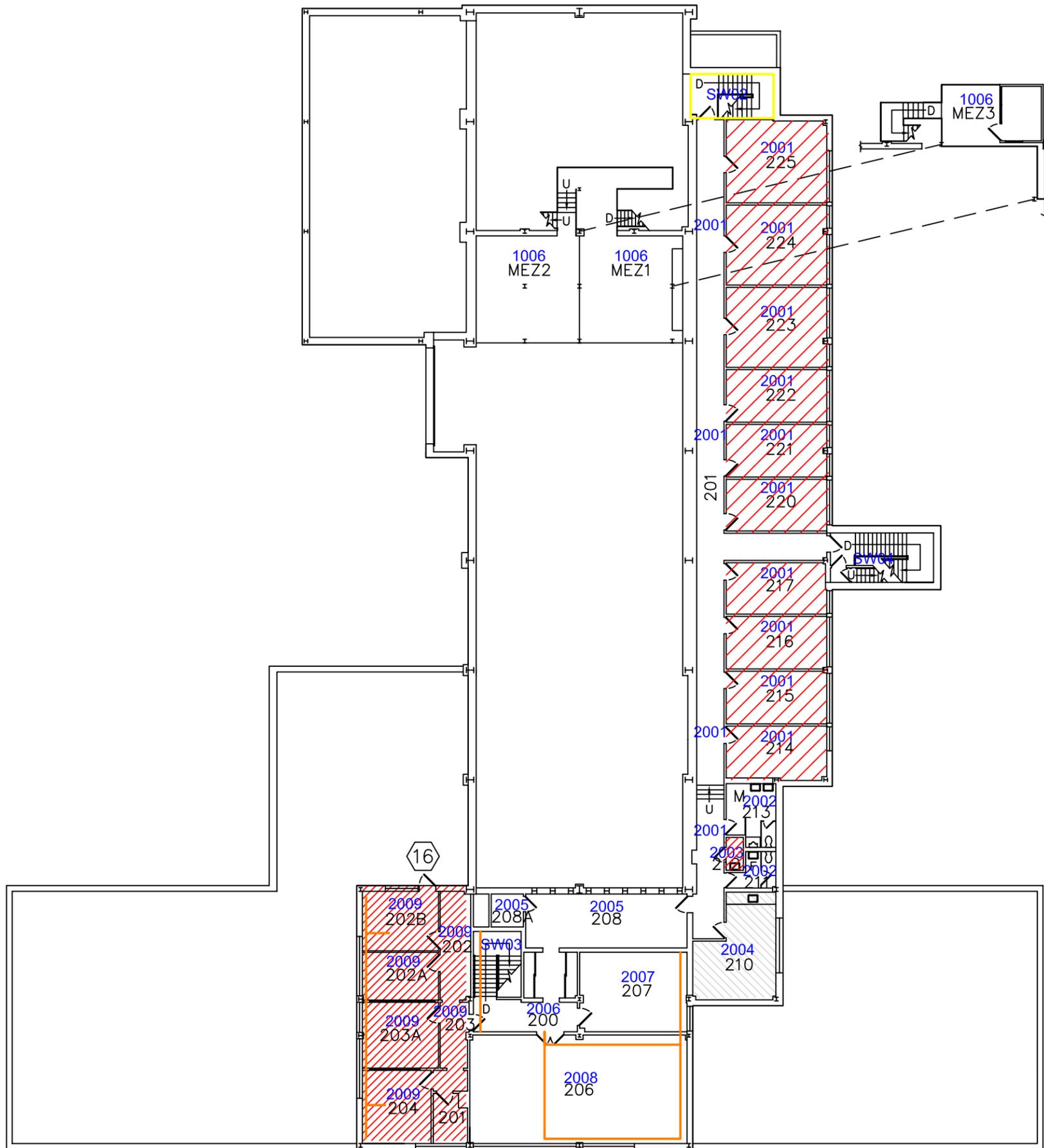
PROJECT NO.
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DATE
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SCALE
 NTS

TITLE
**-FIRST FLOOR-
 SAMPLE
 & MOULD
 LOCATIONS**

SHEET
1-3



OAKHILL
ENVIRONMENTAL

LEGEND

- 1001 FUNCTIONAL SPACE #
- ACM PIPE INSULATION: DUCT
- ACM FLOOR TILE 12"X12"
- ACM TEXTURED PLASTER
- AREA NOT INSPECTED (INACCESSIBLE)

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: t's, valves, ends, hangers, etc.

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BUILDING M-59

PROJECT NO.

PR-08-43

DATE

MARCH 2009

SCALE

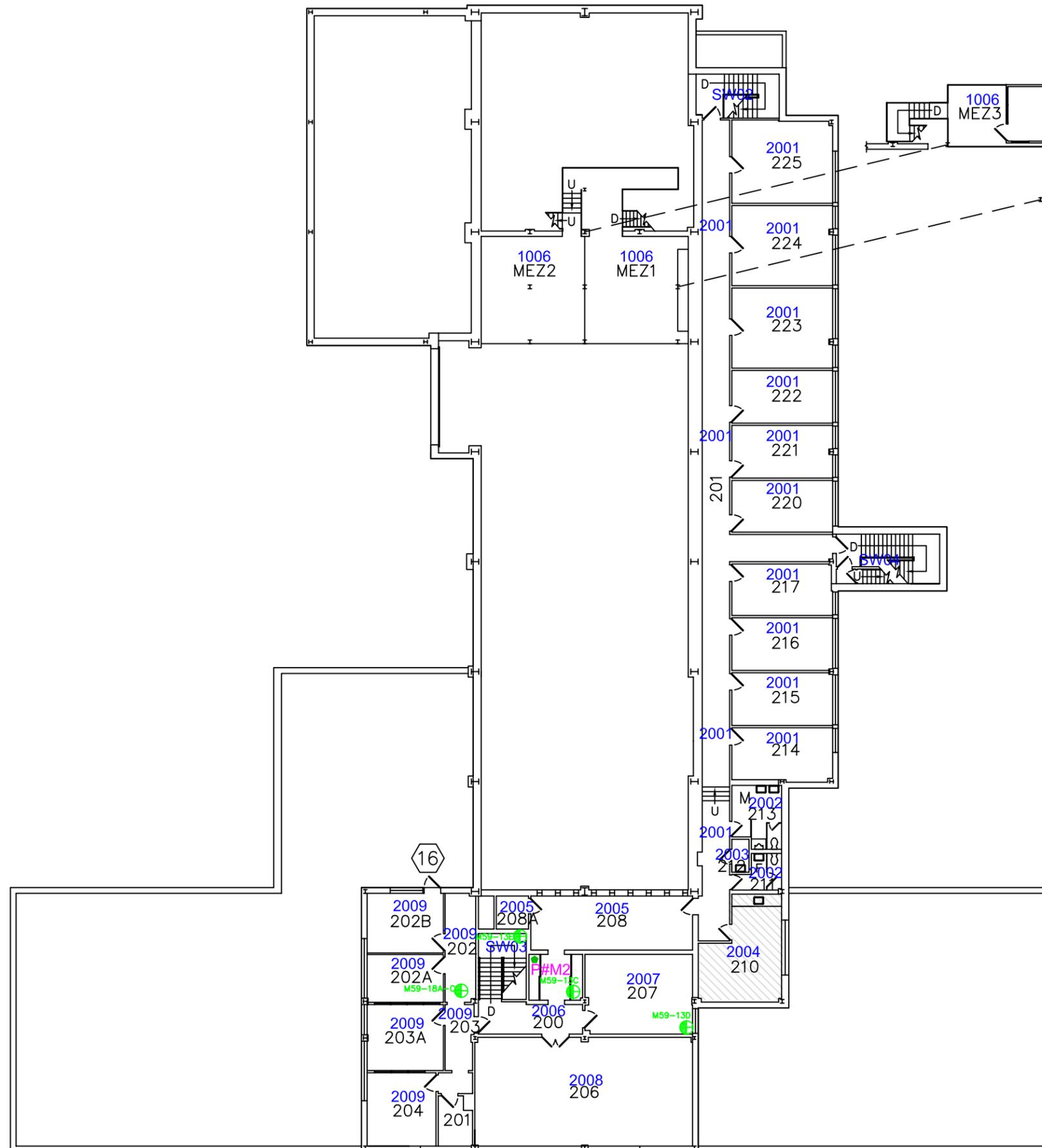
NTS

TITLE

**SECOND FLOOR-
ASBESTOS
SURVEY**

SHEET

2-2



OAKHILL
ENVIRONMENTAL

LEGEND

- 1001 FUNCTIONAL SPACE #
- SAMPLE LOCATION: NON-ACM
- SAMPLE LOCATION: ACM
- SUSPECT MOULD LOCATIONS
- # PHOTOGRAPH #
- SAMPLE LOCATION: NON-LEAD
- SAMPLE LOCATION: LEAD

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: t's, valves, ends, hangers, etc.

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BUILDING M-59

PROJECT NO.

PR-08-43

DATE

MARCH 2009

SCALE

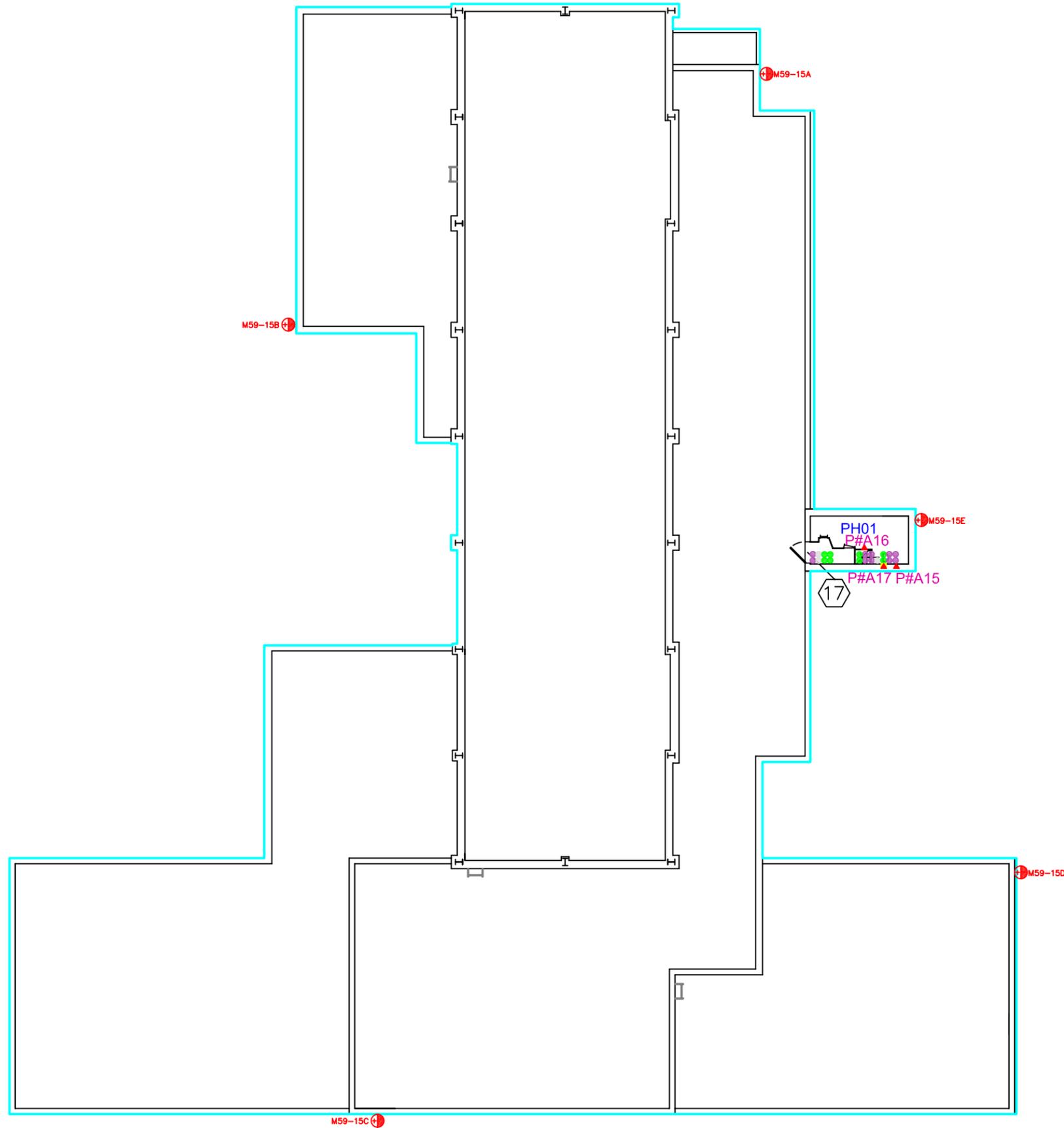
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TITLE

SECOND FLOOR-
SAMPLE
& MOULD
LOCATIONS

SHEET

2-3



OAKHILL
ENVIRONMENTAL

LEGEND

- 1001 FUNCTIONAL SPACE #
- ▲ DAMAGED ACM LOCATION
- P# PHOTOGRAPH #
- ▲ ACM DEBRIS
- ACM FITTING INSULATION: HW HEATING
- ACM FITTING INSULATION: CHILLER
- ACM FITTING INSULATION: DRAIN
- ACM FITTING INSULATION: DRAIN
- ① SAMPLE LOCATION: ACM

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: tees, valves, ends, hangers, etc.

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PROJECT
DESIGNATED SUBSTANCES SURVEY
BUILDING M-59

PROJECT NO.
PR-08-43

DATE
MARCH 2009

SCALE
NTS

TITLE
-PENTHOUSE-
& EXTERIOR
ASBESTOS
SURVEY

SHEET
PH-EX

APPENDIX F
FUNCTIONAL SPACE FORMS



Building ID: M-59	Notes: 1) No access above solid ceiling. 2) Cond.: One damaged section of aircell pipe insulation requires one encapsulation (0.4 LM). 3) Cond.: One open end of aircell pipe insulation requires one encapsulations (0.2 LM). 4) DCW: Two open ends of aircell pipe insulation require two encapsulations (0.4 LM). 5) DCW: One damaged section of aircell pipe insulation requires one encapsulation (0.2 LM). 6) DCW: One damaged mud joint compound fitting (FG PI with tar paper layer) requires one encapsulation (1 unit). 7) Samples M59-1(A,B), M59-2(A-C), M59-3C, M59-4(A-C), M59-5(A-C), M59-6(A-C), M59-7(A-C), M59-11(A-C), M59-12(A-C) & M59-16(A-C). M59-L9, M59-L10, M59-L11, M59-L12 were collected in this area.	Functional Space (FS #): B001 Page 1 of 3 Location: Room 011 Inspector (s): SB, SM & NR
Date: March 3, 2009		
Project #: PR-08-043		

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	--	Concrete	Floor	N	--	--	--	--	--	--	--	--
Walls	--	Concrete	Wall	N	--	--	--	--	--	--	--	--
	--	Concrete block	Wall	N	--	--	--	--	--	--	--	--
Ceiling	--	Concrete	Deck	N	--	--	--	--	--	--	--	--
Above Ceiling	--	--	--	--	--	--	--	--	--	--	--	--
Below Ceiling	3	FG PI (with tar paper layer)	DCW	N	--	NAD	--	--	--	--	--	--
	2	MJC FI (FG PI with tar paper layer)	DCW	Y	Y	60% Chrysotile	18 units	G	B	O&M	B-1	--
	2	MJC FI (FG PI with tar paper layer)	DCW	Y	Y	60% Chrysotile	1 unit	F	B	1 encapsulation	B-2	A38
	11	Sweatwrap PI	DCW	N	--	NAD	--	--	--	--	--	--
	12	MJC FI (with Sweatwrap PI)	DCW	Y	Y	65% Chrysotile	11 units	G	B	O&M	B-1	--
	6	Aircell PI	DCW	Y	Y	40% Chrysotile	23 LM	G	B	O&M	B-1	--
	6	Aircell PI	DCW	Y	Y	40% Chrysotile	0.6 LM	F	B	3 encapsulations	B-2	A24, A31, A39
	--	FG PI & FI (with aluminum casing)	DCW	N	--	--	--	--	--	--	--	--
	--	FG PI & FI	DCW	N	--	--	--	--	--	--	--	--
	4	Magblock PI	Cond.	Y	Y	25% Chrysotile	291 LM	G	B	O&M	B-1	--
	5	MJC FI	Cond.	Y	Y	30% Chrysotile	27 units	G	B	O&M	B-1	--
	6	Aircell PI	Cond.	Y	Y	40% Chrysotile	9 LM	G	B	O&M	B-1	--
	6	Aircell PI	Cond.	Y	Y	40% Chrysotile	0.6 LM	F	B	2 encapsulations	B-2	A27, A30
	--	FG PI & FI	Cond.	N	--	--	--	--	--	--	--	--

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



Building ID: M-59	Notes: 8) Steam: One damaged section of magblock pipe insulation requires one removal (0.5 LM). 9) Steam: Residual mud joint compound fitting insulation requires one removal (1 unit). 10) Steam: Four damaged sections of magblock pipe insulation require four encapsulations (1.4 LM). 11) Steam: Three damaged sections of aircell pipe insulation require three encapsulations (1.4 LM). 12) Steam: One open end of magblock pipe insulation requires one encapsulation (0.2 LM). 13) HWH: ACM debris (aircell pipe insulation) on drain system requires clean-up (<1.0 m2). 14) HWH: Four damaged sections of aircell pipe insulation require four encapsulations (1.6 LM). 15) HWH: Five damaged mud joint compound fittings require five encapsulations (5 unit).	Functional Space (FS #): B001 Page 2 of 3 Location: Room 011 Inspector (s): SB, SM & NR
Date: March 3, 2009		
Project #: PR-08-043		

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 #:
	4	Magblock PI	Steam	Y	Y	25% Chrysotile	46 LM	G	B	O&M	B-1	--
	4	Magblock PI	Steam	Y	Y	25% Chrysotile	0.5 LM	P	B	1 removal	B-2	A2
	4	Magblock PI	Steam	Y	Y	25% Chrysotile	1.6 LM	F	B	5 encapsulations	B-2	A4, A23, A26, A41, A46
	6	Aircell PI	Steam	Y	Y	40% Chrysotile	19 LM	G	B	O&M	B-1	--
	6	Aircell PI	Steam	Y	Y	40% Chrysotile	1.4 LM	F	B	3 encapsulations	B-2	A37, A45
	5	MJC FI	Steam	Y	Y	30% Chrysotile	60 units	G	B	O&M	B-1	--
	5	MJC FI	Steam	Y	Y	30% Chrysotile	1 unit	F	B	1 encapsulation	B-2	A32
	5	MJC FI (residual)	Steam	Y	Y	30% Chrysotile	1 unit	P	B	1 removal	B-2	A3
	6	Aircell PI	HWH	Y	Y	40% Chrysotile	169 LM	G	B	O&M	B-1	--
	6	Aircell PI	HWH	Y	Y	40% Chrysotile	1.6 LM	F	B	4 encapsulations	B-2	A8, A20, A22, A35
	7	MJC FI	HWH	Y	Y	60% Chrysotile	152 units	G	B	O&M	B-1	--
	7	MJC FI	HWH	Y	Y	60% Chrysotile	5 units	F	B	5 encapsulations	B-2	A5, A28, A33, A34, A36
	--	FG PI (with aluminum casing)	HWH	N	--	--	--	--	--	--	--	--
	6	ACM debris (aircell PI)	HWH	Y	Y	40% Chrysotile	<1.0 m2	P	B	clean-up	B-2	A6
	--	Metal	Fire Water	N	--	--	--	--	--	--	--	--
	--	Metal	Drain	N	--	--	--	--	--	--	--	--
	3	FG PI (with tar paper layer)	Drain	N	--	NAD	--	--	--	--	--	--
	11	Sweatwrap PI	Drain	N	--	NAD	--	--	--	--	--	--
	--	FG PI	Drain	N	--	--	--	--	--	--	--	--
	2	MJC FI (FG PI with tar paper layer)	Drain	Y	Y	60% Chrysotile	5 units	G	B	O&M	B-1	--
	2	MJC FI (FG PI with tar paper layer)	Drain	Y	Y	60% Chrysotile	1 unit	F	B	1 encapsulation	B-2	A47
	12	MJC FI (with Sweatwrap PI)	Drain	Y	Y	65% Chrysotile	47 units	G	B	O&M	B-1	--
	12	MJC FI (with Sweatwrap PI)	Drain	Y	Y	65% Chrysotile	2 units	F	B	2 encapsulations	B-2	A7, A19
	12	MJC FI (with Sweatwrap PI)	Drain	Y	Y	65% Chrysotile	2 units	P	B	2 removals	B-2	A18, A21
	--	Metal	Vent	N	--	--	--	--	--	--	--	--

Material Description: MJC: Mud Joint Compound FI: Fitting Insulation: PI: Pipe Insulation DI: Duct Insulation FG: Fibreglass FT: Floor Tile CT: Ceiling Tile	Criteria for Condition of an ACM: G: ACM is in GOOD condition; No damage F: ACM is in FAIR condition; Less than 2% damage P: ACM is in POOR condition; Greater than 2% damage	Criteria for Access to an area containing ACM: A: All building occupants may have access to this area. B: Restricted to building staff only. C: Areas of the building behind walls or ceiling system.
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Building ID: M-59 Date: Mar. 3, 2009 Project #: PR-08-043	Notes: 16) Drain: Two damaged mud joint compound fittings (with sweatwrap pipe insulation) require two encapsulations (2 units). 17) Drain: One damaged mud joint compound fitting (fiberglass pipe insulation with tar paper lyer) requires one encapsulation (1 unit). 18) Drain: Two damaged mud joint compound fittings (with sweatwrap pipe insulation) require two removals (2 units). 20) DHW: Two damaged mud joint compound fittings require two encapsulations (2 units). 21) DHW: One damaged mud joint compound fitting requires one removal (1 unit). 22) DHW: ACM debris (mud joint compound fitting) on electrical box requires clean-up (<1.0 m2) . 23) DHW: Three damaged sections of aircell pipe insulation require three encapsulations (1.2 LM). 24) DHW: ACM debris (aircell pipe insulation) on drain system requires clean-up (<1.0 m2). 25) DHW: Two open ends of aircell pipe insulation require two encapsulations (0.6 LM). 26) DI: One damaged section of fiberglass duct insulation (with tar paper layer) requires one encapsulation (1.0 LM). 27) Drain: ACM debris (mud joint compound fitting) on duct system requires clean-up (<1.0 m2). 28) Suspect mould was observed on the duct insulation (2 locations).	Functional Space (FS #): B001 page 3 of 3 Location: Room 011 Inspector (s): SB, SM & NR
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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 #:
Below Ceiling	6	Aircell PI	DHW	Y	Y	40% Chrysotile	111 LM	G	B	O&M	B-1	--
	6	Aircell PI	DHW	Y	Y	40% Chrysotile	1.8 LM	F	B	5 encapsulations	B-2	A12, A25, A42, A44, A49
	7	MJC FI	DHW	Y	Y	60% Chrysotile	24 units	G	B	O&M	B-1	--
	7	MJC FI	DHW	Y	Y	60% Chrysotile	2 units	F	B	2 encapsulations	B-2	A9, A29
	7	MJC FI	DHW	Y	Y	60% Chrysotile	1 unit	P	B	1 removal	B-2	A10
	7	ACM Debris (MJC FI)	DHW	Y	Y	60% Chrysotile	<1.0 m2	P	B	clean-up	B-2	A11
	6	ACM Debris (aircell PI)	DHW	Y	Y	40% Chrysotile	<1.0 m2	P	B	clean-up	B-2	A14
	--	FG PI & FI	DHW	N	--	--	--	--	--	--	--	--
	--	FG PI & FI (with aluminum casing)	Chiller	N	--	--	--	--	--	--	--	--
	--	Foam PI (black)	Chiller	N	--	--	--	--	--	--	--	--
	--	FG PI	Chiller	N	--	--	--	--	--	--	--	--
	--	Styrofoam	Chiller	N	--	--	--	--	--	--	--	--
	1	MJC FI	Chiller	Y	Y	60% Chrysotile	12 units	G	B	O&M	B-1	--
	--	FG DI	Duct	N	--	--	--	--	--	--	--	--
	--	Metal	Duct	N	--	--	--	--	--	--	--	--
	2	ACM debris (MJC FI)	Drain	Y	Y	60% Chrysotile	<1.0 m2	P	B	clean-up	B-2	A48
	16	FG DI (with tar paper layer)	Duct	Y	Y	60% Chrysotile	46 LM	G	C	O&M	1-1	--
	16	FG DI (with tar paper layer)	Duct	Y	Y	60% Chrysotile	1.0 LM	F	C	1 encapsulation	1-2	A220
	--	Suspect mould	Duct	N	--	--	2 locations	--	--	--	1-3	M3

Material Description: MJC: Mud Joint Compound FI: Fitting Insulation: PI: Pipe Insulation DI: Duct Insulation FG: Fibreglass FT: Floor Tile CT: Ceiling Tile	Criteria for Condition of an ACM: G: ACM is in GOOD condition; No damage F: ACM is in FAIR condition; Less than 2% damage P: ACM is in POOR condition; Greater than 2% damage	Criteria for Access to an area containing ACM: A: All building occupants may have access to this area. B: Restricted to building staff only. C: Areas of the building behind walls or ceiling system.
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Building ID: M-59 Date: Mar. 4, 2009 Project #: PR-08-043	Notes: 1) No access above solid ceiling. 2) No ACM's were observed during time of survey.	Functional Space (FS #): B002 Location: Room 012 Inspector (s): SB, SM & NR
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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	--	Concrete	Floor	N	--	--	--	--	--	--	--	--
Walls	--	Concrete block	Wall	N	--	--	--	--	--	--	--	--
	--	Concrete	Wall	N	--	--	--	--	--	--	--	--
Ceiling	--	Concrete	Deck	N	--	--	--	--	--	--	--	--
Above Ceiling	--	--	--	--	--	--	--	--	--	--	--	--
Below Ceiling	--	--	--	--	--	--	--	--	--	--	--	--

Material Description: MJC: Mud Joint Compound FI: Fitting Insulation: PI: Pipe Insulation DI: Duct Insulation FG: Fibreglass FT: Floor Tile CT: Ceiling Tile	Criteria for Condition of an ACM: G: ACM is in GOOD condition; No damage F: ACM is in FAIR condition; Less than 2% damage P: ACM is in POOR condition; Greater than 2% damage	Criteria for Access to an area containing ACM: A: All building occupants may have access to this area. B: Restricted to building staff only. C: Areas of the building behind walls or ceiling system.
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Building ID: M-59	Notes: 1) No access above solid ceiling. 2) All ACM's were observed to be in good condition during time of survey. 3) Samples M59-1C, M59-3(A,B), M59-L8 were collected in this area.	Functional Space (FS #): B004
Date: Mar. 5, 2009		Location: Room 010
Project #: PR-08-043		Inspector (s): SB, SM & NR

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	--	Concrete	Floor	N	--	--	--	--	--	--	--	--
Walls	--	Concrete	Wall	N	--	--	--	--	--	--	--	--
	--	Concrete Block	Wall	N	--	--	--	--	--	--	--	--
Ceiling	--	Concrete	Deck	N	--	--	--	--	--	--	--	--
Above Ceiling	--	--	--	--	--	--	--	--	--	--	--	--
Below Ceiling	--	FG PI (with aluminum casing)	HWH	N	--	--	--	--	--	--	--	--
	--	FG PI	HWH	N	--	--	--	--	--	--	--	--
	7	MJC FI	HWH	N	--	60% Chrysotile	4 units	G	B	O&M	B-1	--
	6	Aircell PI	HWH	Y	Y	40% Chrysotile	18 LM	G	B	O&M	B-1	--
	--	Metal	Drain	N	--	--	--	--	--	--	--	--
	--	FG PI (with aluminum casing)	Chiller	N	--	--	--	--	--	--	--	--
	1	MJC FI	Chiller	Y	Y	60% Chrysotile	6 units	G	B	O&M	B-1	--
	--	Metal	Fire water	N	--	--	--	--	--	--	--	--
	--	FG PI	DCW	N	--	--	--	--	--	--	--	--
	3	FG PI (with tar paper layer)	DCW	N	--	NAD	--	--	--	--	--	--
	6	Aircell PI	DHW	Y	Y	40% Chrysotile	6 LM	G	B	O&M	B-1	--
	4	Magblock PI	Steam	Y	Y	25% Chrysotile	5 LM	G	B	O&M	B-1	--

<p>Material Description: MJC: Mud Joint Compound FI: Fitting Insulation: PI: Pipe Insulation DI: Duct Insulation FG: Fibreglass FT: Floor Tile CT: Ceiling Tile</p>	<p>Criteria for Condition of an ACM: G: ACM is in GOOD condition; No damage F: ACM is in FAIR condition; Less than 2% damage P: ACM is in POOR condition; Greater than 2% damage</p>	<p>Criteria for Access to an area containing ACM: A: All building occupants may have access to this area. B: Restricted to building staff only. C: Areas of the building behind walls or ceiling system.</p>
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Building ID: M-59 Date: Mar. 5, 2009 Project #: PR-08-043	Notes: 1) No access above solid ceiling 2) All ACM's were observed to be in good condition during time of survey.	Functional Space (FS #): B005 Location: Room 013 Inspector (s): SB, SM & NR
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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	--	Concrete	Floor	N	--	--	--	--	--	--	--	--
Walls	--	Concrete Block	Wall	N	--	--	--	--	--	--	--	--
	--	Concrete	Wall	N	--	--	--	--	--	--	--	--
Ceiling	--	Concrete	Deck	N	--	--	--	--	--	--	--	--
Above Ceiling	--	--	--	--	--	--	--	--	--	--	--	--
Below Ceiling	--	Metal	Drain	N	--	--	--	--	--	--	--	--
	6	Aircell PI	Cond.	Y	Y	30% Chrysotile	5 LM	G	B	O&M	B-1	--

Material Description: MJC: Mud Joint Compound FI: Fitting Insulation: PI: Pipe Insulation DI: Duct Insulation FG: Fibreglass FT: Floor Tile CT: Ceiling Tile	Criteria for Condition of an ACM: G: ACM is in GOOD condition; No damage F: ACM is in FAIR condition; Less than 2% damage P: ACM is in POOR condition; Greater than 2% damage	Criteria for Access to an area containing ACM: A: All building occupants may have access to this area. B: Restricted to building staff only. C: Areas of the building behind walls or ceiling system.
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Building ID: M-59	Notes: 1) No access above solid ceiling 2) ACM debris with an area greater than 1.0 m2 (approximately 200m2 out of 335m2) was observed. There were 57 areas of encapsulations and 7 areas of removals observed. Due to significant area of debris, and the high number of encapsulations and removals, it is strongly recommended that all ACM be removed during the clean up. 3) Cond.: One open end of aircell pipe insulation requires one encapsulation (0.2 LM). 4) Cond.: Three damaged sections of aircell pipe insulation require three encapsulations (0.8 LM). 5) Cond.: Residual mud joint compound fitting requires one removal (1 unit). 6) Cond.: One damaged mud joint compound fitting requires one encapsulation (1 unit).	Functional Space (FS #): B006 page 1 of 3 Location: Room 015 Inspector (s): SB, SM & NR
Date: Mar. 5, 2009		
Project #: PR-08-043		

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	--	Gravel Fill	Floor	N	--	--	--	--	--	--	--	--
Walls	--	Concrete block	Wall	N	--	--	--	--	--	--	--	--
Ceiling	--	Concrete	Deck	N	--	--	--	--	--	--	--	--
Above Ceiling	--	--	--	--	--	--	--	--	--	--	--	--
Below Ceiling	6	Aircell PI	HWH	Y	Y	40% Chrysotile	159 LM	G	B	O&M	B-1	--
	6	Aircell PI	HWH	Y	Y	40% Chrysotile	8.9 LM	F	B	25 encapsulations	B-2	A50, A51, A55, A61, A62, A63, A64, A65, A66, A67, A77, A78, A79, A80, A81, A82, A83, A85, A87, A93, A94, A99, A100
	--	FG PI	HWH	N	--	--	--	--	--	--	--	--
	7	MJC FI	HWH	Y	Y	60% Chrysotile	60 units	G	B	O&M	B-1	--
	7	MJC FI	HWH	Y	Y	60% Chrysotile	2 units	F	B	2 encapsulations	B-2	A84, A86
	4	Magblock PI	Steam	Y	Y	25% Chrysotile	17 LM	G	B	O&M	B-1	--
	4	Magblock PI	Steam	Y	Y	25% Chrysotile	3.2 LM	F	B	4 encapsulations	B-2	A58, A95, A97, A98
	5	MJC FI	Steam	Y	Y	30% Chrysotile	3 units	G	B	O&M	B-1	--
	--	FG PI	Chiller	N	--	--	--	--	--	--	--	--
	--	Metal	Drain	N	--	--	--	--	--	--	--	--
	6	Aircell PI	DHW	Y	Y	40% Chrysotile	86 LM	G	B	O&M	B-1	--
	6	Aircell PI	DHW	Y	Y	40% Chrysotile	4.8 LM	F	B	19 encapsulations	B-2	A89, A90, A101, A102, A103, A104, A106, A107, A112, A113, A114, A115, A116, A120, A121, A124, A125

Material Description: MJC: Mud Joint Compound FI: Fitting Insulation PI: Pipe Insulation DI: Duct Insulation FG: Fibreglass FT: Floor Tile CT: Ceiling Tile	Criteria for Condition of an ACM: G: ACM is in GOOD condition; No damage F: ACM is in FAIR condition; Less than 2% damage P: ACM is in POOR condition; Greater than 2% damage	Criteria for Access to an area containing ACM: A: All building occupants may have access to this area. B: Restricted to building staff only. C: Areas of the building behind walls or ceiling system.
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Building ID: M-59	Notes: 7) Steam: ACM debris (mud joint compound fitting) on floor requires clean-up (<1.0 m2). 8) Steam: Four damaged sections of magblock pipe insulation require four encapsulations (3.2 LM). 9) HWH: Twenty-five damaged sections of aircell pipe insulation require twenty-five encapsulations (8.9 LM). 10) HWH: Two damaged mud joint compound fittings require two encapsulations (2 units). 11) DCW: One damaged mud joint compound fitting requires one encapsulation (1 unit). 12) DCW: Three damaged mud joint compound fittings require three removals (3 units).	Functional Space (FS #): B006 page 2 of 3 Location: Room 015 Inspector (s): SB, SM & NR
Date: Mar. 5, 2009		
Project #: PR-08-043		

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 #:
Below Ceiling	6	Aircell PI	DHW	Y	Y	40% Chrysotile	4.0 LM	P	B	2 removals	B-2	A60
	--	FG PI	DHW	N	--	--	--	--	--	--	--	--
	7	MJC FI	DHW	Y	Y	60% Chrysotile	13 units	G	B	O&M	B-1	--
	7	MJC FI	DHW	Y	Y	60% Chrysotile	1 unit	F	B	1 encapsulation	B-2	A111
	3	FG PI (with tar paper layer)	DCW	N	--	NAD	--	--	--	--	--	--
	4	Aircell PI	DCW	Y	Y	40% Chrysotile	10 LM	G	B	O&M	B-1	--
	2	MJC FI	DCW	Y	Y	60% Chrysotile	13 units	G	B	O&M	B-1	--
	2	MJC FI	DCW	Y	Y	60% Chrysotile	3 units	F	B	3 encapsulations	B-2	A88, A109, A110
	2	MJC FI	DCW	Y	Y	60% Chrysotile	1 unit	P	B	1 removal	B-2	A96
	--	FG PI	DCW	N	--	--	--	--	--	--	--	--
	--	Metal	Fire water	N	--	--	--	--	--	--	--	--
	6	Aircell PI	Cond.	Y	Y	40% Chrysotile	20 LM	G	B	O&M	B-1	--
	6	Aircell PI	Cond.	Y	Y	40% Chrysotile	1.0 LM	F	B	4 encapsulations	B-2	A53, A54, A56, A105
	5	MJC FI	Cond.	Y	Y	30% Chrysotile	4 unit	G	B	O&M	B-1	--
	5	MJC FI	Cond.	Y	Y	30% Chrysotile	1 unit	F	B	1 encapsulation	B-2	A57
	5	Residual MJC FI	Cond.	Y	Y	30% Chrysotile	1 unit	P	B	1 removal	B-2	A108
	6	Aircell PI	Air	Y	Y	40% Chrysotile	0.4 LM	P	B	1 removal	B-2	A117
	6	Aircell PI	Gas	Y	Y	40% Chrysotile	0.4 LM	P	B	1 removal	B-2	A118

Material Description: MJC: Mud Joint Compound FI: Fitting Insulation: PI: Pipe Insulation DI: Duct Insulation FG: Fibreglass FT: Floor Tile CT: Ceiling Tile	Criteria for Condition of an ACM: G: ACM is in GOOD condition; No damage F: ACM is in FAIR condition; Less than 2% damage P: ACM is in POOR condition; Greater than 2% damage	Criteria for Access to an area containing ACM: A: All building occupants may have access to this area. B: Restricted to building staff only. C: Areas of the building behind walls or ceiling system.
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Building ID: M-59	Notes: 13) DHW: Six open ends of aircell pipe insulation require six encapsulations (1.4 LM). 14) DHW: Thirteen damaged sections of aircell pipe insulation require thirteen encapsulations (3.6 LM). 15) DHW: Two damaged sections of aircell pipe insulation require two removals (4.0 LM). 16) DHW: One damaged mud joint compound fitting requires one encapsulation (1 unit). 17) Air: One damaged section of aircell pipe insulation requires one removal (0.4 LM). 18) Gas: One damaged section of aircell pipe insulation requires one removal (0.4 LM). 19) HWH: ACM debris (mud joint compound fitting) on floor requires clean-up (<1.0 m2). 20) HWH: ACM debris (aircell pipe insulation) on floor requires clean-up (<1.0 m2). 21) HWH: ACM debris (aircell pipe insulation and mud joint compound fittings) on floor requires clean-up (>1.0 m2). 22) HWH: ACM debris (aircell pipe insulation) on floor requires clean-up (>1.0 m2). 23) HWH: ACM debris (aircell pipe insulation and mud joint compound fittings) on floor requires clean-up (>1.0 m2). 24) HWH: ACM debris (aircell pipe insulation and mud joint compound fittings) on floor requires clean-up (>1.0 m2). 25) HWH: ACM debris (aircell pipe insulation and mud joint compound fittings) on floor requires clean-up (>1.0 m2). 26) DHW: ACM debris (aircell pipe insulation) on floor requires clean-up (>1.0 m2). 27) Unknown: ACM debris (aircell pipe insulation) on floor requires clean-up (>1.0 m2). 28) Unknown: ACM debris (aircell pipe insulation) on floor requires clean-up (>1.0 m2).	Functional Space (FS #): B006 page 3 of 3 Location: Room 015 Inspector (s): SB, SM & NR
Date: Mar. 5, 2009		
Project #: PR-08-043		

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 #:
	7	ACM debris (MJC FI)	Floor	Y	Y	60% Chrysotile	<1.0 m2	P	B	clean-up	B-2	A52
	5	ACM debris (MJC FI)	Floor	Y	Y	30% Chrysotile	<1.0 m2	P	B	clean-up	B-2	A59
	7	ACM debris (aircell PI)	Floor	Y	Y	40% Chrysotile	<1.0 m2	P	B	clean-up	B-2	A68
	--	ACM debris (aircell PI)	Floor	Y	Y	40% Chrysotile	>1.0 m2	P	B	clean-up	B-2	A69
	--	ACM debris (aircell PI)	Floor	Y	Y	40% Chrysotile	>1.0 m2	P	B	clean-up	B-2	A70
	6	ACM debris (aircell PI)	Floor	Y	Y	40% Chrysotile	>1.0 m2	P	B	clean-up	B-2	A71
	6	ACM debris (aircell PI)	Floor	Y	Y	40% Chrysotile	>1.0 m2	P	B	clean-up	B-2	A72
	7	ACM debris (aircell PI & MJC FI)	Floor	Y	Y	60% Chrysotile	>1.0 m2	P	B	clean-up	B-2	A73
	7	ACM debris (aircell PI & MJC FI)	Floor	Y	Y	60% Chrysotile	>1.0 m2	P	B	clean-up	B-2	A74
	7	ACM debris (aircell PI & MJC FI)	Floor	Y	Y	60% Chrysotile	>1.0 m2	P	B	clean-up	B-2	A75
	7	ACM debris (aircell PI & MJC FI)	Floor	Y	Y	60% Chrysotile	>1.0 m2	P	B	clean-up	B-2	A76

<p>Material Description: MJC: Mud Joint Compound FI: Fitting Insulation: PI: Pipe Insulation DI: Duct Insulation FG: Fibreglass FT: Floor Tile CT: Ceiling Tile</p>	<p>Criteria for Condition of an ACM: G: ACM is in GOOD condition; No damage F: ACM is in FAIR condition; Less than 2% damage P: ACM is in POOR condition; Greater than 2% damage</p>	<p>Criteria for Access to an area containing ACM: A: All building occupants may have access to this area. B: Restricted to building staff only. C: Areas of the building behind walls or ceiling system.</p>
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Building ID: M-59 Date: Mar. 6, 2009 Project #: PR-08-043	Notes: 1) No access above solid ceiling. 2) No ACM's were observed during time of survey.	Functional Space (FS #): B007 Location: Room 016 Inspector (s): SB, SM & NR
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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	--	Concrete	Floor	N	--	--	--	--	--	--	--	--
Walls	--	Concrete	Wall	N	--	--	--	--	--	--	--	--
	--	Concrete block	Wall	N	--	--	--	--	--	--	--	--
Ceiling	--	Concrete	Deck	N	--	--	--	--	--	--	--	--
Above Ceiling	--	--	--	--	--	--	--	--	--	--	--	--
Below Ceiling	--	FG PI &FI	Steam	N	--	--	--	--	--	--	--	--
	3	FG PI (with tar paper layer)	DCW	N	--	NAD	--	--	--	--	--	--
	--	FG PI &FI	DCW	N	--	--	--	--	--	--	--	--
	--	FG PI &FI	Chiller	N	--	--	--	--	--	--	--	--
	--	FG PI &FI	Cond.	N	--	--	--	--	--	--	--	--

Material Description: MJC: Mud Joint Compound FI: Fitting Insulation: PI: Pipe Insulation DI: Duct Insulation FG: Fibreglass FT: Floor Tile CT: Ceiling Tile	Criteria for Condition of an ACM: G: ACM is in GOOD condition; No damage F: ACM is in FAIR condition; Less than 2% damage P: ACM is in POOR condition; Greater than 2% damage	Criteria for Access to an area containing ACM: A: All building occupants may have access to this area. B: Restricted to building staff only. C: Areas of the building behind walls or ceiling system.
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Building ID: M-59	Notes: 1) No access above solid ceiling 2) DHW: Two damaged sections of aircell pipe insulation require two encapsulations (0.6 LM).	Functional Space (FS #): B008
Date: Mar. 6, 2009		Location: Room 017
Project #: PR-08-043		Inspector (s): SB, SM & NR

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	--	Concrete	Floor	N	--	--	--	--	--	--	--	--
Walls	--	Concrete	Wall	N	--	--	--	--	--	--	--	--
		Concrete block	Wall	N	--	--	--	--	--	--	--	--
Ceiling	13	Plaster	Deck	N	--	NAD	--	--	--	--	--	--
	--	Concrete	Deck	N	--	--	--	--	--	--	--	--
Above Ceiling												
Below Ceiling	3	FG PI (with tar paper layer)	DCW	N	--	NAD	--	--	--	--	--	--
	--	FG PI	DCW	N	--	--	--	--	--	--	--	--
	11	Sweatwrap PI	DCW	N	--	NAD	--	--	--	--	--	--
	--	Metal	Fire water	N	--	--	--	--	--	--	--	--
	--	Metal	Drain	N	--	--	--	--	--	--	--	--
	--	FG PI (with aluminum casing)	Chiller	N	--	--	--	--	--	--	--	--
	1	MJC FI	Chiller	Y	Y	60% Chrysotile	2 units	G	B	O&M	B-1	--
	6	Aircell PI	DHW	Y	Y	40% Chrysotile	6 LM	G	B	O&M	B-1	--
	6	Aircell PI	DHW	Y	Y	40% Chrysotile	0.6 LM	F	B	2 encapsulations	B-2	A129, A130

Material Description: MJC: Mud Joint Compound FI: Fitting Insulation: PI: Pipe Insulation DI: Duct Insulation FG: Fibreglass FT: Floor Tile CT: Ceiling Tile	Criteria for Condition of an ACM: G: ACM is in GOOD condition; No damage F: ACM is in FAIR condition; Less than 2% damage P: ACM is in POOR condition; Greater than 2% damage	Criteria for Access to an area containing ACM: A: All building occupants may have access to this area. B: Restricted to building staff only. C: Areas of the building behind walls or ceiling system.
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Building ID: M-59	Notes: 1) No access above solid ceiling. 2) Drain: ACM debris (mud joint compound fitting) on floor requires clean-up (<1.0 m2). 3) Drain: One damaged mud joint compound fitting requires one removal (1 unit).	Functional Space (FS #): 1001
Date: Mar. 6, 2009		Location: Rooms 137
Project #: PR-08-043		Inspector (s): SB, SM & NR

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	--	Concrete	Floor	N	--	--	--	--	--	--	--	--
Walls	--	Concrete block	Wall	N	--	--	--	--	--	--	--	--
Ceiling	--	Concrete	Deck	N	--	--	--	--	--	--	--	--
Above Ceiling	--	--	--	--	--	--	--	--	--	--	--	--
Below Ceiling	3	FG PI (with tar paper layer)	Drain	N	--	NAD	--	--	--	--	--	--
	2	MJC FI	Drain	Y	Y	60% Chrysotile	2 units	G	B	O&M	1-1	--
	2	MJC FI	Drain	Y	Y	60% Chrysotile	1 unit	P	B	1 removal	1-2	A132
	--	Metal	Duct	N	--	--	--	--	--	--	--	--
	--	FG PI & FI (with aluminum casing)	Chiller	N	--	--	--	--	--	--	--	--
	11	Sweatwrap PI	DCW	N	--	NAD	--	--	--	--	--	--
	6	Aircell PI	Steam	Y	Y	40% Chrysotile	9 LM	G	B	O&M	1-1	--
	5	MJC FI	Steam	Y	Y	30% Chrysotile	1 unit	G	B	O&M	1-1	--
	6	Aircell PI	Cond.	Y	Y	40% Chrysotile	8 LM	G	B	O&M	1-1	--
	--	metal	Vent	N	--	--	--	--	--	--	--	--
	7	ACM debris (MJC FI)	Floor	Y	Y	60% Chrysotile	<1.0 m2	P	B	clean-up	1-2	A131

Material Description: MJC: Mud Joint Compound FI: Fitting Insulation: PI: Pipe Insulation DI: Duct Insulation FG: Fibreglass FT: Floor Tile CT: Ceiling Tile	Criteria for Condition of an ACM: G: ACM is in GOOD condition; No damage F: ACM is in FAIR condition; Less than 2% damage P: ACM is in POOR condition; Greater than 2% damage	Criteria for Access to an area containing ACM: A: All building occupants may have access to this area. B: Restricted to building staff only. C: Areas of the building behind walls or ceiling system.
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Building ID: M-59 Date: Mar. 6, 2009 Project #: PR-08-043	Notes: 1) No access above solid ceiling. 2) DCW: One damaged mud joint compound fitting requires one removal (1 unit). 3) DCW: ACM debris (mud joint compound fitting) on door requires clean-up (<1.0 m2).	Functional Space (FS #): 1002 Location: Room 136 Inspector (s): SB, SM & NR
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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	--	Concrete	Floor	N	--	--	--	--	--	--	--	--
Walls	--	Concrete block	Wall	N	--	--	--	--	--	--	--	--
Ceiling	--	Concrete	Deck	N	--	--	--	--	--	--	--	--
Above Ceiling	--	--	--	--	--	--	--	--	--	--	--	--
Below Ceiling	11	Sweatwrap PI	DCW	N	--	NAD	--	--	--	--	--	--
	12	MJC FI (with Sweatwrap PI)	DCW	Y	Y	65% Chrysotile	1 unit	G	B	O&M	1-1	--
	2	MJC FI	DCW	Y	Y	60% Chrysotile	1 unit	P	B	1 removal	1-2	A137
	6	Aircell PI	Steam	Y	Y	40% Chrysotile	4 LM	G	B	O&M	1-1	--
	5	MJC FI	Steam	Y	Y	30% Chrysotile	2 units	G	B	O&M	1-1	--
	6	Aircell PI	Cond.	Y	Y	40% Chrysotile	4 LM	G	B	O&M	1-1	--
	2	ACM debris (MJC FI)	Door	Y	Y	60% Chrysotile	<1.0 m2	P	B	clean-up	1-2	A138

Material Description:
 MJC: Mud Joint Compound
 FI: Fitting Insulation:
 PI: Pipe Insulation
 DI: Duct Insulation
 FG: Fibreglass
 FT: Floor Tile
 CT: Ceiling Tile

Criteria for Condition of an ACM:
 G: ACM is in GOOD condition; No damage
 F: ACM is in FAIR condition; Less than 2% damage
 P: ACM is in POOR condition; Greater than 2% damage

Criteria for Access to an area containing ACM:
 A: All building occupants may have access to this area.
 B: Restricted to building staff only.
 C: Areas of the building behind walls or ceiling system.



Building ID: M-59	Notes: 1) No access above solid ceiling. 2) No ACM's were observed during time of survey.	Functional Space (FS #): 1003
Date: Mar. 6, 2009		Location: Room 127
Project #: PR-08-043		Inspector (s): SB, SM & NR

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	--	12" x 12" FT (white)	Floor	N	--	--	--	--	--	Post 1986	--	--
Walls	--	Ceramic Tile	Wall	N	--	--	--	--	--	--	--	--
Ceiling	--	Concrete	Deck	N	--	--	--	--	--	--	--	--
Above Ceiling	--	--	--	--	--	--	--	--	--	--	--	--
Below Ceiling	--	FG PI & FI (with aluminum casing)	Chiller	N	--	--	--	--	--	--	--	--
	--	FG PI & FI (with aluminum casing)	Cond.	N	--	--	--	--	--	--	--	--
	--	Metal	Drain	N	--	--	--	--	--	--	--	--
	--	Metal	Air	N	--	--	--	--	--	--	--	--

<p>Material Description: MJC: Mud Joint Compound FI: Fitting Insulation: PI: Pipe Insulation DI: Duct Insulation FG: Fibreglass FT: Floor Tile CT: Ceiling Tile</p>	<p>Criteria for Condition of an ACM: G: ACM is in GOOD condition; No damage F: ACM is in FAIR condition; Less than 2% damage P: ACM is in POOR condition; Greater than 2% damage</p>	<p>Criteria for Access to an area containing ACM: A: All building occupants may have access to this area. B: Restricted to building staff only. C: Areas of the building behind walls or ceiling system.</p>
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Building ID: M-59 Date: Mar. 6, 2009 Project #: PR-08-043	Notes: 1) No access above solid ceiling. 2) During survey the crawl space below room 135 was inspected. 3) All ACM's were observed to be in good condition during time of survey.	Functional Space (FS #): 1004 Location: Rooms 135 Inspector (s): SB, SM & NR
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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	--	Concrete	Floor	N	--	--	--	--	--	--	--	--
Walls	--	Concrete Block	Wall	N	--	--	--	--	--	--	--	--
Ceiling	--	Concrete	Deck	N	--	--	--	--	--	--	--	--
Above Ceiling	--	--	--	--	--	--	--	--	--	--	--	--
Below Ceiling	--	FG PI & FI (with aluminum casing)	Cond.	N	--	--	--	--	--	--	--	--
	5	MJC FI	Cond.	Y	Y	30% Chrysotile	4 units	G	B	O&M	1-1	--
	--	FG PI & FI	Cond.	N	--	--	--	--	--	--	--	--
	--	Metal	Fire water	N	--	--	--	--	--	--	--	--
	--	Metal	Gas	N	--	--	--	--	--	--	--	--
	3	FG PI (with tar paper layer)	Drain	N	--	NAD	--	--	--	--	--	--
	2	MJC FI	Drain	Y	Y	60% Chrysotile	3 units	G	B	O&M	1-1	--

Material Description: MJC: Mud Joint Compound FI: Fitting Insulation: PI: Pipe Insulation DI: Duct Insulation FG: Fibreglass FT: Floor Tile CT: Ceiling Tile	Criteria for Condition of an ACM: G: ACM is in GOOD condition; No damage F: ACM is in FAIR condition; Less than 2% damage P: ACM is in POOR condition; Greater than 2% damage	Criteria for Access to an area containing ACM: A: All building occupants may have access to this area. B: Restricted to building staff only. C: Areas of the building behind walls or ceiling system.
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Building ID: M-59 Date: Mar. 6, 2009 Project #: PR-08-043	Notes: 1) No access above solid ceiling. 2) No ACM's were aboserved during time of survey.	Functional Space (FS #): 1005 Location: Room 135A Inspector (s): SB, SM & NR
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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	--	12" x 12" FT (beige)	N	N	--	--	--	--	--	Post 1986	--	--
Walls	13	Plaster	Wall	N	--	NAD	--	--	--	--	--	--
	--	Concrete block	Wall	N	--	--	--	--	--	--	--	--
Ceiling	13	Plaster	Ceiling	N	--	NAD	--	--	--	--	--	--
Above Ceiling	--	--	--	--	--	--	--	--	--	--	--	--
Below Ceiling	--	FG PI & FI (with aluminum casing)	Cond.	N	--	--	--	--	--	--	--	--
	--	FG PI & FI (with aluminum casing)	Steam	N	--	--	--	--	--	--	--	--

Material Description: MJC: Mud Joint Compound FI: Fitting Insulation: PI: Pipe Insulation DI: Duct Insulation FG: Fibreglass FT: Floor Tile CT: Ceiling Tile	Criteria for Condition of an ACM: G: ACM is in GOOD condition; No damage F: ACM is in FAIR condition; Less than 2% damage P: ACM is in POOR condition; Greater than 2% damage	Criteria for Access to an area containing ACM: A: All building occupants may have access to this area. B: Restricted to building staff only. C: Areas of the building behind walls or ceiling system.
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Building ID: M-59	Notes: 1) No access above old ceiling. 2) During survey the crawl space below room 134 was inspected. 3) Mezzanine levels 1, 2 & 3 were included in this FSF. 4) No ACM's were observed during time of survey.	Functional Space (FS #): 1006
Date: Mar. 6 2009		Location: Room 134
Project #: PR-08-043		Inspector (s): SB, SM & NR

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	--	Concrete	Floor	N	--	--	--	--	--	--	--	--
	--	12" x 12" FT (white)	Floor	N	--	--	--	--	--	Post 1986	--	--
	--	Metal	Floor	N	--	--	--	--	--	--	--	--
	--	Wood	Floor	N	--	--	--	--	--	--	--	--
	--	Vinyl	Floor	N	--	--	--	--	--	--	--	--
Walls	--	Ceramic tile	Wall	N	--	--	--	--	--	--	--	--
	--	Concrete	Wall	N	--	--	--	--	--	--	--	--
	--	Drywall	Wall	N	--	--	--	--	--	--	--	--
Ceiling	--	Concrete	Deck	N	--	--	--	--	--	--	--	--
	--	Concrete	Ceiling	N	--	--	--	--	--	--	--	--
	--	2' x 4' CT	Ceiling	N	--	--	--	--	--	Post 1986	--	--
Above Ceiling	--	--	--	--	--	--	--	--	--	--	--	--
Below Ceiling	--	Metal	Air	N	--	--	--	--	--	--	--	--
	--	Metal	DCW	N	--	--	--	--	--	--	--	--
	--	Metal	Duct	N	--	--	--	--	--	--	--	--
	--	FG PI & FI	Cond.	N	--	--	--	--	--	--	--	--
	--	Metal	Fire water	N	--	--	--	--	--	--	--	--
	--	Metal	Drain	N	--	--	--	--	--	--	--	--

Material Description: MJC: Mud Joint Compound FI: Fitting Insulation: PI: Pipe Insulation DI: Duct Insulation FG: Fibreglass FT: Floor Tile CT: Ceiling Tile	Criteria for Condition of an ACM: G: ACM is in GOOD condition; No damage F: ACM is in FAIR condition; Less than 2% damage P: ACM is in POOR condition; Greater than 2% damage	Criteria for Access to an area containing ACM: A: All building occupants may have access to this area. B: Restricted to building staff only. C: Areas of the building behind walls or ceiling system.
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Building ID: M-59	Notes: 1) No access above solid ceiling. 2) DHW: Three damaged sections of aircell pipe insulation require three encapsulation (1.4 LM). 3) DHW: One damaged mud joint compound fitting requires one removal (1 unit). 4) Steam: Four damaged sections of magblock pipe insulation require four encapsulations (2.4 LM). 5) Drain: Two damaged mud joint compound fittings require two encapsulations (2 units). 6) DCW: One damaged mud joint compound fitting requires one removal (1 unit). 7) DCW: One open end of aircell pipe insulation requires one removal (0.2 LM). 8) Steam: One damaged mud joint compound fitting requires one encapsulation (1 unit).	Functional Space (FS #): 1007 Location: Rooms 133 & 133A Inspector (s): SB, SM & NR
Date: Mar. 6, 2009		
Project #: PR-08-043		

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	--	Concrete	Floor	N	--	--	--	--	--	--	--	--
	--	Wood	Floor	N	--	--	--	--	--	--	--	--
	--	Carpet	Floor	N	--	--	--	--	--	--	--	--
Walls	--	Ceramic Tile	Wall	N	--	--	--	--	--	--	--	--
	--	Concrete Block	Wall	N	--	--	--	--	--	--	--	--
	--	Drywall	Wall	N	--	--	--	--	--	--	--	--
	--	Styrofoam Sound Proofing	Wall	N	--	--	--	--	--	--	--	--
	14	Textured plaster	Wall	Y	Y	2% Chrysotile	38 m2	G	B	O&M	1-1	--
Ceiling	--	Concrete	Deck	N	--	--	--	--	--	--	--	--
	14	Textured plaster	Ceiling	Y	Y	2% Chrysotile	13 m2	G	B	O&M	1-1	--
	--	2' x 4' CT	Ceiling	N	--	--	--	--	--	Post 1986	--	--
Above Ceiling	--	--	--	--	--	--	--	--	--	--	--	--
Below Ceiling	--	Metal	Fire water	N	--	--	--	--	--	--	--	--
	--	Metal	Duct	N	--	--	--	--	--	--	--	--
	--	Metal	Drain	N	--	--	--	--	--	--	--	--
	3	FG PI (with tar paper layer)	Drain	N	--	NAD	--	--	--	--	--	--
	2	MJC FI	Drain	Y	Y	60% Chrysotile	6 units	G	B	O&M	1-1	--
	2	MJC FI	Drain	Y	Y	60% Chrysotile	2 units	F	B	2 encapsulations	1-2	A147, A149
	--	FG PI	HWH	N	--	--	--	--	--	--	--	--
	7	MJC FI	HWH	Y	Y	60% Chrysotile	9 units	G	B	O&M	1-1	--
	--	Metal	Gas	--	--	--	--	--	--	--	--	--
	3	FG PI (with tar paper layer)	DCW	N	--	NAD	--	--	--	--	--	--
	2	MJC FI	DCW	Y	Y	60% Chrysotile	5 units	G	B	O&M	1-1	--
	2	MJC FI	DCW	Y	Y	60% Chrysotile	1 unit	P	B	1 removal	1-2	A151
	4	Magblock PI	Steam	Y	Y	25% Chrysotile	18 LM	G	B	O&M	1-1	--
	4	Magblock PI	Steam	Y	Y	25% Chrysotile	2.4 LM	F	B	4 encapsulations	1-2	A143, A145, A146, A153
	5	MJC FI	Steam	Y	Y	30% Chrysotile	1 unit	F	B	1 encapsulation	1-2	A152
	6	Aircell PI	DHW	Y	Y	40% Chrysotile	29 LM	G	B	O&M	1-1	--
	6	Aircell PI	DHW	Y	Y	40% Chrysotile	1.4 LM	F	B	3 encapsulations	1-2	A140, A144
	6	Aircell PI	DCW	Y	Y	40% Chrysotile	0.2 LM	P	B	1 removal	1-2	A141
	7	MJC FI	DHW	Y	Y	60% Chrysotile	1 unit	P	B	1 removal	1-2	A150

Material Description: MJC: Mud Joint Compound FI: Fitting Insulation: PI: Pipe Insulation DI: Duct Insulation FG: Fibreglass FT: Floor Tile CT: Ceiling Tile	Criteria for Condition of an ACM: G: ACM is in GOOD condition; No damage F: ACM is in FAIR condition; Less than 2% damage P: ACM is in POOR condition; Greater than 2% damage	Criteria for Access to an area containing ACM: A: All building occupants may have access to this area. B: Restricted to building staff only. C: Areas of the building behind walls or ceiling system.
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Building ID: M-59	Notes: 1) No access above solid ceiling. 2) DHW: Two damaged sections of aircell pipe insulation require two encapsulations (0.8 LM). 3) HWH: One open end of aircell pipe insulation requires one encapsulation (0.2 LM). 4) Samples M59-L1 & M59-L2 were collected in this area.	Functional Space (FS #): 1009
Date: Mar. 6, 2009		Location: Rooms 132
Project #: PR-08-043		Inspector (s): SB, SM & NR

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	--	Concrete	Floor	N	--	--	--	--	--	--	--	--
Walls	--	Concrete Block	Wall	N	--	--	--	--	--	--	--	--
	--	Brick	Wall	N	--	--	--	--	--	--	--	--
Ceiling	--	Concrete	Deck	N	--	--	--	--	--	--	--	--
Above Ceiling	--	--	--	--	--	--	--	--	--	--	--	--
Below Ceiling	--	Metal	Fire water	N	--	--	--	--	--	--	--	--
	3	FG PI (with tar paper layer)	DCW	N	--	NAD	--	--	--	--	--	--
	--	FG PI & FI (with aluminum casing)	DCW	N	--	--	--	--	--	--	--	--
	2	MJC FI	Drain	Y	Y	60% Chrysotile	2 units	G	B	O&M	1-1	--
	3	FG PI (with tar paper layer)	Drain	N	--	NAD	--	--	--	--	--	--
	5	MJC FI	Steam	Y	Y	30% Chrysotile	4 units	G	B	O&M	1-1	--
	4	Mag block PI	Steam	Y	Y	25% Chrysotile	6 LM	G	B	O&M	1-1	--
	6	Aircell PI	Steam	Y	Y	40% Chrysotile	5 LM	G	B	O&M	1-1	--
	7	MJC FI	HWH	Y	Y	60% Chrysotile	11 units	G	B	O&M	1-1	--
	6	Aircell PI	HWH	Y	Y	40% Chrysotile	16 LM	G	B	O&M	1-1	--
	6	Aircell PI	HWH	Y	Y	40% Chrysotile	0.2 LM	F	B	1 encapsulation	1-2	A158
	6	Aircell PI	DHW	Y	Y	40% Chrysotile	13 LM	G	B	O&M	1-1	--
	6	Aircell PI	DHW	Y	Y	40% Chrysotile	0.8 LM	F	B	2 encapsulations	1-2	A155, A157
	5	MJC FI	Cond.	Y	Y	30% Chrysotile	4 units	G	B	O&M	1-1	--
	6	Aircell PI	Cond.	Y	Y	40% Chrysotile	12 LM	G	B	O&M	1-1	--

Material Description: MJC: Mud Joint Compound FI: Fitting Insulation: PI: Pipe Insulation DI: Duct Insulation FG: Fibreglass FT: Floor Tile CT: Ceiling Tile	Criteria for Condition of an ACM: G: ACM is in GOOD condition; No damage F: ACM is in FAIR condition; Less than 2% damage P: ACM is in POOR condition; Greater than 2% damage	Criteria for Access to an area containing ACM: A: All building occupants may have access to this area. B: Restricted to building staff only. C: Areas of the building behind walls or ceiling system.
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Building ID: M-59	Notes: 1) Above ceiling was inspected from room 132. 2) All ACM's were observed to be in good condition during time of survey.	Functional Space (FS #): 1010
Date: Mar. 6, 2009		Location: Hallway
Project #: PR-08-043		Inspector (s): SB, SM & NR

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	--	12" x 12" FT (white)	Floor	N	--	--	--	--	--	Post 1986	--	--
Walls	--	Brick	Wall	N	--	--	--	--	--	--	--	--
	--	Concrete block	Wall	N	--	--	--	--	--	--	--	--
Ceiling	13	Plaster	Ceiling	N	--	NAD	--	--	--	--	--	--
Above Ceiling	3	FG PI (with tar paper layer)	Drain	N	--	NAD	--	--	--	--	--	--
	4	Magblock PI	Steam	Y	Y	25% Chrysotile	3 LM	G	C	O&M	1-1	--
	6	Aircell PI	Cond.	Y	Y	60% Chrysotile	3 LM	G	C	O&M	1-1	--
	3	FG PI (with tar paper layer)	DCW	N	--	NAD	--	--	--	--	--	--
	6	Aircell PI	DHW	Y	Y	60% Chrysotile	6 LM	G	C	O&M	1-1	--
Below Ceiling	--	--	--	--	--	--	--	--	--	--	--	--

<p>Material Description: MJC: Mud Joint Compound FI: Fitting Insulation: PI: Pipe Insulation DI: Duct Insulation FG: Fibreglass FT: Floor Tile CT: Ceiling Tile</p>	<p>Criteria for Condition of an ACM: G: ACM is in GOOD condition; No damage F: ACM is in FAIR condition; Less than 2% damage P: ACM is in POOR condition; Greater than 2% damage</p>	<p>Criteria for Access to an area containing ACM: A: All building occupants may have access to this area. B: Restricted to building staff only. C: Areas of the building behind walls or ceiling system.</p>
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Building ID: M-59	Notes: 1) No access above solid ceiling. 2) Drain: One damaged mud joint compound fitting requires one encapsulation (1 unit). 3) HWH: One open end of aircell pipe insulation requires one encapsulation (0.2 LM).	Functional Space (FS #): 1011
Date: Mar. 6, 2009		Location: Room 131
Project #: PR-08-043		Inspector (s): SB, SM & NR

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	--	Concrete	Floor	N	--	--	--	--	--	--	--	--
Walls	--	Brick	Wall	N	--	--	--	--	--	--	--	--
	--	Concrete block	Wall	N	--	--	--	--	--	--	--	--
Ceiling	--	Concrete	Deck	N	--	--	--	--	--	--	--	--
Above Ceiling	--	--	--	--	--	--	--	--	--	--	--	--
Below Ceiling	--	Metal	Drain	N	--	--	--	--	--	--	--	--
	3	FG PI (with tar paper layer)	Drain	N	--	NAD	--	--	--	--	--	--
	2	MJC FI	Drain	Y	Y	60% Chrysotile	3 units	G	B	O&M	1-1	--
	2	MJC FI	Drain	Y	Y	60% Chrysotile	1 unit	F	B	1 encapsulation	1-2	A160
	4	Magblock PI	Steam	Y	Y	25% Chrysotile	4 LM	G	B	O&M	1-1	--
	6	Aircell PI	Cond.	Y	Y	40% Chrysotile	4 LM	G	B	O&M	1-1	--
	3	FG PI (with tar paper layer)	DCW	N	--	NAD	--	--	--	--	--	--
	--	FG PI (with aluminum casing)	DCW	N	--	--	--	--	--	--	--	--
	6	Aircell PI	DHW	Y	Y	40% Chrysotile	8 LM	G	B	O&M	1-1	--
	--	FG PI (with aluminum casing)	DHW	N	--	--	--	--	--	--	--	--
	--	Metal	Fire water	N	--	--	--	--	--	--	--	--
	--	Metal	Air	N	--	--	--	--	--	--	--	--
	--	Metal	Gas	N	--	--	--	--	--	--	--	--
	--	Metal	Duct	N	--	--	--	--	--	--	--	--
	6	Aircell PI	HWH	Y	Y	40% Chrysotile	9 LM	G	B	O&M	1-1	--
	6	Aircell PI	HWH	Y	Y	40% Chrysotile	0.2 LM	F	B	1 encapsulation	1-2	A159
	7	MJC FI	HWH	Y	Y	60% Chrysotile	2 units	G	B	O&M	1-1	--

<p>Material Description: MJC: Mud Joint Compound FI: Fitting Insulation: PI: Pipe Insulation DI: Duct Insulation FG: Fibreglass FT: Floor Tile CT: Ceiling Tile</p>	<p>Criteria for Condition of an ACM: G: ACM is in GOOD condition; No damage F: ACM is in FAIR condition; Less than 2% damage P: ACM is in POOR condition; Greater than 2% damage</p>	<p>Criteria for Access to an area containing ACM: A: All building occupants may have access to this area. B: Restricted to building staff only. C: Areas of the building behind walls or ceiling system.</p>
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Building ID: M-59	Notes: 1) No access above soiled ceiling. 2) HWH: One open end of aircell pipe insulation requires one encapsulation (0.2 LM). 3) HWH: Two damaged mud joint compound fittings require two encapsulations (2 units). 4) DHW: Two damaged mud joint compound fittings require two encapsulations (2 units). 5) DCW: One damaged mud joint compound fitting requires one encapsulation (1 unit). 6) Drain: One damaged mud joint compound fitting requires one removal (1 unit). 7) Samples M59-10(A-C) & M59-L5 were collected in this area.	Functional Space (FS #): 1012
Date: Mar. 6, 2009		Location: Room 130
Project #: PR-08-043		Inspector (s): SB, SM & NR

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	10	12" x 12" FT (light grey with brown streaks)	Floor	N	--	NAD	--	--	--	--	--	--
			Wall	N	--	--	--	--	--	--	--	--
Walls	--	Brick	Wall	N	--	--	--	--	--	--	--	--
	--	Concrete block										
Ceiling	--	Concrete	Deck	N	--	--	--	--	--	--	--	--
Above Ceiling	--	--	--	--	--	--	--	--	--	--	--	--
Below Ceiling	--	Metal	Drain	N	--	--	--	--	--	--	--	--
	3	FG PI (with tar paper layer)	Drain	N	--	NAD	--	--	--	--	--	--
	2	MJC FI	Drain	Y	Y	60% Chrysotile	1 unit	P	B	1 removal	1-2	A167
	4	Magblock PI	Steam	Y	Y	25% Chrysotile	8 LM	G	B	O&M	1-1	--
	5	MJC FI	Steam	Y	Y	30% Chrysotile	4 units	G	B	O&M	1-1	--
	6	Aircell PI	Cond.	Y	Y	40% Chrysotile	8 LM	G	B	O&M	1-1	--
	5	MJC FI	Cond.	Y	Y	30% Chrysotile	5 units	G	B	O&M	1-1	--
	3	FG PI (with tar paper layer)	DCW	N	--	NAD	--	--	--	--	--	--
	2	MJC FI	DCW	Y	Y	60% Chrysotile	1 unit	G	B	O&M	1-1	--
	2	MJC FI	DCW	Y	Y	60% Chrysotile	1 unit	F	B	1 encapsulation	1-2	A166
	6	Aircell PI	DHW	Y	Y	40% Chrysotile	14 LM	G	B	O&M	1-1	--
	7	MJC FI	DHW	Y	Y	60% Chrysotile	2 units	G	B	O&M	1-1	--
	7	MJC FI	DHW	Y	Y	60% Chrysotile	2 units	F	B	2 encapsulations	1-2	A164, A165
	--	Metal	Fire water	N	--	--	--	--	--	--	--	--
	--	Metal	Air	N	--	--	--	--	--	--	--	--
	--	Metal	Gas	N	--	--	--	--	--	--	--	--
	6	Aircell PI	HWH	Y	Y	40% Chrysotile	12 LM	G	B	O&M	1-1	--
	6	Aircell PI	HWH	Y	Y	40% Chrysotile	0.2 LM	F	B	1 encapsulation	1-2	A161
	7	MJC FI	HWH	Y	Y	60% Chrysotile	7 units	G	B	O&M	1-1	--
	7	MJC FI	HWH	Y	Y	60% Chrysotile	2 units	F	B	2 encapsulations	1-2	A162, A163

Material Description: MJC: Mud Joint Compound FI: Fitting Insulation PI: Pipe Insulation DI: Duct Insulation FG: Fibreglass FT: Floor Tile CT: Ceiling Tile	Criteria for Condition of an ACM: G: ACM is in GOOD condition; No damage F: ACM is in FAIR condition; Less than 2% damage P: ACM is in POOR condition; Greater than 2% damage	Criteria for Access to an area containing ACM: A: All building occupants may have access to this area. B: Restricted to building staff only. C: Areas of the building behind walls or ceiling system.
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Building ID: M-59	Notes:	Functional Space (FS #): 1013
Date: Mar. 6, 2009	1) Area above ceiling was observed through access hatch in each room.	page 1 of 2
Project #: PR-08-043	2) Unknown: Three damaged sections of aircell pipe insulation require three removals (1.2 LM).	Location: Rooms 129, 128 & hallway
	3) Unknown: ACM debris (aircell pipe insulation and mud joint compound fitting insulation) on ceiling requires clean-up (<1.0 m2).	Mens washroom
	4) Unknown: ACM debris (mud joint compound fitting insulation) on ceiling requires clean-up (<1.0 m2).	Inspector (s): SB, SM & NR
	5) HWH: ACM debris (aircell pipe insulation) on domestic hot water system requires clean-up (<1.0 m2).	
	6) HWH: ACM debris (mud joint compound fitting insulation) on ceiling requires clean-up (<1.0 m2).	
	7) DHW: Two damaged sections of aircell pipe insulation requires two removals (12.2 LM).	
	8) Sample M59-13B was collected in this area.	

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	--	12" x 12" FT (white)	Floor	N	--	--	--	--	--	Post 1986	--	--
	--	Ceramic tile	Floor	N	--	--	--	--	--	--	--	--
Walls	13	Plaster	Wall	N	--	NAD	--	--	--	--	--	--
	--	Ceramic tile	Wall	N	--	--	--	--	--	--	--	--
Ceiling	13	Plaster	Ceiling	N	--	NAD	--	--	--	--	--	--
Above Ceiling	--	Concrete	Deck	N	--	--	--	--	--	--	--	--
	--	Concrete block	Wall	N	--	--	--	--	--	--	--	--
	--	Clay tile	Wall	N	--	--	--	--	--	--	--	--
	6	ACM Debris (Aircell PI)	Wall	Y	Y	40% Chrysotile	<1.0 m2	P	C	clean-up	1-2	A183
	--	Metal	Drain	N	--	--	--	--	--	--	--	--
	4	Magblock PI	Steam	Y	Y	25% Chrysotile	6 LM	G	C	O&M	1-1	--
	6	Aircell PI	Cond.	Y	Y	40% Chrysotile	6 LM	G	C	O&M	1-1	--
	11	Sweatwrap PI	DCW	N	--	NAD	--	--	--	--	--	--
	2	MJC FI	DCW	Y	Y	60% Chrysotile	1 unit	P	C	1 removal	1-2	A177
	6	Aircell PI	DHW	Y	Y	40% Chrysotile	1 LM	G	C	O&M	1-1	--
	6	Aircell PI	DHW	Y	Y	40% Chrysotile	12.2 LM	P	C	2 removals	1-2	A174
	6	Aircell PI	DHW	Y	Y	40% Chrysotile	0.2 LM	F	C	1 encapsulation	1-2	A176
	6	ACM Debris (aircell PI)	DHW	Y	Y	40% Chrysotile	<1.0 m2	P	C	clean-up	1-2	A172
	6	Aircell PI	HWH	Y	Y	40% Chrysotile	15 LM	G	C	O&M	1-1	--
	6	Aircell PI	HWH	Y	Y	40% Chrysotile	0.8 LM	F	C	3 encapsulations	1-2	A181, A182, A184
	7	MJC FI	HWH	Y	Y	60% Chrysotile	5 units	G	C	O&M	1-1	--
	7	MJC FI	HWH	Y	Y	60% Chrysotile	1 unit	F	C	1 encapsulation	1-2	A180
	6	Aircell PI	Unknown	Y	Y	40% Chrysotile	1.2 LM	P	C	3 removals	1-2	A168, A185
	7	ACM Debris (aircell PI & MJC FI)	Ceiling	Y	Y	60% Chrysotile	<1.0 m2	P	C	clean-up	1-2	A170
	7	ACM Debris (MJC FI)	Ceiling	Y	Y	60% Chrysotile	<1.0 m2	P	C	clean-up	1-2	A171
	7	ACM Debris (MJC FI)	Ceiling	Y	Y	60% Chrysotile	<1.0 m2	P	C	clean-up	1-2	A173
	7	ACM Debris (aircell PI)	Ceiling	Y	Y	60% Chrysotile	<1.0 m2	P	C	clean-up	1-2	A178
	7	ACM Debris (MJC FI)	Ceiling	Y	Y	60% Chrysotile	<1.0 m2	P	C	clean-up	1-2	A179
	7	ACM Debris (MJC FI)	Ceiling	Y	Y	60% Chrysotile	<1.0 m2	P	C	clean-up	1-2	A186
	7	ACM Debris (MJC FI)	Ceiling	Y	Y	60% Chrysotile	<1.0 m2	P	C	clean-up	1-2	A187
	--	Metal	Duct	N	--	--	--	--	--	--	--	--
Below Ceiling	6	Aircell PI	HWH	Y	Y	40% Chrysotile	16 LM	G	B	O&M	1-1	--

Material Description: MJC: Mud Joint Compound FI: Fitting Insulation: PI: Pipe Insulation DI: Duct Insulation FG: Fibreglass FT: Floor Tile CT: Ceiling Tile	Criteria for Condition of an ACM: G: ACM is in GOOD condition; No damage F: ACM is in FAIR condition; Less than 2% damage P: ACM is in POOR condition; Greater than 2% damage	Criteria for Access to an area containing ACM: A: All building occupants may have access to this area. B: Restricted to building staff only. C: Areas of the building behind walls or ceiling system.
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Building ID: M-59	Notes: 1) No access above solid ceiling. 2) Samples M59-L3, M59-L4, M59-L13 & M59-L14 were collected in this area. 3) Pipes were inspected from floor level as access was not readily available due to height elevation. 4) Cond.: One open end of aircell pipe insulation requires one encapsulation (0.2 LM). 5) Steam: One open end of magblock pipe insulation requires one encapsulation (0.2 LM). 6) Cond.: Seven damaged mud joint compound fittings require seven encapsulations (7 units). 7) Steam: Two damaged mud joint compound fittings require two encapsulations (2 units). 8) Cond.: One damaged section of aircell pipe insulation requires one encapsulation (0.4 LM). 9) Steam: One damaged section of magblock pipe insulation requires one removal (1.0 LM). 10) Steam: Two damaged sections of magblock pipe insulation require two encapsulations (0.8 LM).	Functional Space (FS #): 1014
Date: Mar. 9, 2009		Location: Room 126
Project #: PR-08-043		Inspector (s): SB & SM

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	--	Concrete	Floor	N	--	--	--	--	--	--	--	--
Walls	--	Ceramic block	Wall	N	--	--	--	--	--	--	--	--
Ceiling	--	Concrete	Deck	N	--	--	--	--	--	--	--	--
Above Ceiling	--	--	--	--	--	--	--	--	--	--	--	--
Below Ceiling	6	Aircell PI	Cond.	Y	Y	40% Chrysotile	55 LM	G	B	O&M	1-1	--
	6	Aircell PI	Cond.	Y	Y	40% Chrysotile	0.6 LM	F	B	2 encapsulations	1-2	A188, A193
	5	MJC FI	Cond.	Y	Y	60% Chrysotile	18 units	G	B	O&M	1-1	--
	5	MJC FI	Cond.	Y	Y	60% Chrysotile	7 units	F	B	7 encapsulations	1-2	A189, A191, A192, A194, A195, A199
	4	Magblock PI	Steam	Y	Y	25% Chrysotile	55 LM	G	B	O&M	1-1	--
	4	Magblock PI	Steam	Y	Y	25% Chrysotile	1.0 LM	F	B	3 encapsulations	1-2	A189, A196, A197
	4	Magblock PI	Steam	Y	Y	25% Chrysotile	1.0 LM	P	B	1 removal	1-2	A198
	5	MJC FI	Steam	Y	Y	60% Chrysotile	16 units	G	B	O&M	1-1	--
	5	MJC FI	Steam	Y	Y	60% Chrysotile	2 units	F	B	2 encapsulations	1-2	A190, A194
	--	Metal	Gas	N	--	--	--	--	--	--	--	--
	3	FG PI (with tar paper layer)	Drain	N	--	NAD	--	--	--	--	--	--
	2	MJC FI	Drain	Y	Y	60% Chrysotile	15 units	G	B	O&M	1-1	--
	--	Metal	Vent	N	--	--	--	--	--	--	--	--
	--	Metal	Duct	N	--	--	--	--	--	--	--	--
	--	FG PI & FI	Steam	N	--	--	--	--	--	--	--	--
	--	FG PI & FI	Cond.	N	--	--	--	--	--	--	--	--
	--	FG PI & FI (with aluminum casing)	Steam	N	--	--	--	--	--	--	--	--
	--	FG PI & FI (with aluminum casing)	Cond.	N	--	--	--	--	--	--	--	--

Material Description: MJC: Mud Joint Compound FI: Fitting Insulation: PI: Pipe Insulation DI: Duct Insulation FG: Fibreglass FT: Floor Tile CT: Ceiling Tile	Criteria for Condition of an ACM: G: ACM is in GOOD condition; No damage F: ACM is in FAIR condition; Less than 2% damage P: ACM is in POOR condition; Greater than 2% damage	Criteria for Access to an area containing ACM: A: All building occupants may have access to this area. B: Restricted to building staff only. C: Areas of the building behind walls or ceiling system.
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Building ID: M-59	Notes: 1) No ACM's were observed during time of survey.	Functional Space (FS #): 1017
Date: Mar. 9, 2009		Location: Rooms 105
Project #: PR-08-043		Inspector (s): SB & SM

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	--	Linoleum	Floor	N	--	--	--	--	--	Post 1986	--	--
Walls	13	Plaster	Wall	N	--	NAD	--	--	--	--	--	--
	--	Drywall	Wall	N	--	--	--	--	--	--	--	--
Ceiling	--	2' x 4' CT	Ceiling	N	--	--	--	--	--	Post 1986	--	--
Above Ceiling	13	Plaster	Ceiling	N	--	NAD	--	--	--	--	--	--
	--	Metal	Duct	N	--	--	--	--	--	--	--	--
Below Ceiling	--	--	--	--	--	--	--	--	--	--	--	--

Material Description:
 MJC: Mud Joint Compound
 FI: Fitting Insulation:
 PI: Pipe Insulation
 DI: Duct Insulation
 FG: Fibreglass
 FT: Floor Tile
 CT: Ceiling Tile

Criteria for Condition of an ACM:
 G: ACM is in GOOD condition; No damage
 F: ACM is in FAIR condition; Less than 2% damage
 P: ACM is in POOR condition; Greater than 2% damage

Criteria for Access to an area containing ACM:
 A: All building occupants may have access to this area.
 B: Restricted to building staff only.
 C: Areas of the building behind walls or ceiling system.



Building ID: M-59	Notes:	Functional Space (FS #): 1018
Date: Mar. 9, 2009	1) Samples M59-9(A-C), M59-L6, M59-L7 were collected in this area, 2) Steam: Three damaged sections of magblock pipe insulation require three encapsulations (0.6 LM). 3) Steam: Two open ends of magblock pipe insulation require two encapsulations (0.4 LM). 4) Cond.: One open end of magblock pipe insulation requires one encapsulation (0.2 LM). 5) Cond.: One damaged mud joint compound fitting requires one encapsulation (1 unit).	Location: Room 106
Project #: PR-08-043		Inspector (s): SB & SM

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	8	12" x 12" FT (light gray with streaks)	Floor	Y	N	2% Chrysotile	25 m2	G	B	O&M	1-1	--
Walls	13	Plaster	Wall	N	--	NAD	--	--	--	--	--	--
Ceiling	--	2' x 4' CT	Ceiling	N	--	--	--	--	--	Post 1986	--	--
Above Ceiling	--	Metal	Deck	N	--	--	--	--	--	--	--	--
	--	Concrete	Deck	N	--	--	--	--	--	--	--	--
	13	Plaster	Wall	N	--	NAD	--	--	--	--	--	--
	--	Metal	Duct	N	--	--	--	--	--	--	--	--
	--	FG DI	Duct	N	--	--	--	--	--	--	--	--
	4	Magblock PI	Cond.	Y	Y	25% Chrysotile	8 LM	G	C	O&M	1-1	--
	4	Magblock PI	Cond.	Y	Y	25% Chrysotile	0.2 LM	F	C	1 encapsulation	1-2	A204
	5	MJC FI	Cond.	Y	Y	60% Chrysotile	8 units	G	C	O&M	1-1	--
	5	MJC FI	Cond.	Y	Y	60% Chrysotile	1 unit	F	C	1 encapsulation	1-2	A205
	4	Magblock PI	Steam	Y	Y	25% Chrysotile	7 LM	G	C	O&M	1-1	--
	4	Magblock PI	Steam	Y	Y	25% Chrysotile	1.0 LM	F	C	5 encapsulations	1-2	A200, A201, A202, A203
	5	MJC FI	Steam	Y	Y	60% Chrysotile	9 units	G	C	O&M	1-1	--
Below Ceiling	--	FG PI & FI	DCW	N	--	--	--	--	--	--	--	--
	--	FG PI & FI	Chiller	N	--	--	--	--	--	--	--	--
	--	Metal	Drain	N	--	--	--	--	--	--	--	--
	--	Metal	Vent	N	--	--	--	--	--	--	--	--

<p>Material Description: MJC: Mud Joint Compound FI: Fitting Insulation: PI: Pipe Insulation DI: Duct Insulation FG: Fibreglass FT: Floor Tile CT: Ceiling Tile</p>	<p>Criteria for Condition of an ACM: G: ACM is in GOOD condition; No damage F: ACM is in FAIR condition; Less than 2% damage P: ACM is in POOR condition; Greater than 2% damage</p>	<p>Criteria for Access to an area containing ACM: A: All building occupants may have access to this area. B: Restricted to building staff only. C: Areas of the building behind walls or ceiling system.</p>
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Building ID: M-59	Notes: 1) All ACM's were observed to be in good condition during time of survey. 2) No access above solid ceiling in rooms 107 & 108.	Functional Space (FS #): 1019
Date: Mar. 9, 2009		Location: Rooms 107, 108, 109
Project #: PR-08-043		Inspector (s): SB & SM

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	--	12" x 12" FT (white)	Floor	N	--	--	--	--	--	Post 1986	--	--
	--	9" x 9" FT (green)	Floor	Y	N	Suspect ACM	13 m2	G	B	O&M	1-1	--
Walls	13	Plaster	Wall	N	--	NAD	--	--	--	--	--	--
Ceiling	--	2' x 4' CT	Ceiling	N	--	--	--	--	--	Post 1986	--	--
	13	Plaster	Ceiling	N	--	NAD	--	--	--	--	--	--
Above Ceiling	--	Concrete	Deck	N	--	--	--	--	--	--	--	--
	--	Metal	Duct	N	--	--	--	--	--	--	--	--
	--	FG DI	Duct	N	--	--	--	--	--	--	--	--
	--	Clay Tile	Wall	N	--	--	--	--	--	--	--	--
	--	FG PI & FI	Chiller	N	--	--	--	--	--	--	--	--
Below Ceiling	--	Metal	Vent	N	--	--	--	--	--	--	--	--
	6	Aircell PI	DCW	Y	Y	40% Chrysotile	0.5 LM	G	B	O&M	1-1	--
	11	Sweatwrap PI	DCW	N	--	NAD	--	--	--	--	--	--
	12	MJC FI (with Sweatwrap PI)	DCW	Y	Y	65% Chrysotile	3 units	G	B	O&M	1-1	--
	6	Aircell PI	DHW	Y	Y	40% Chrysotile	3 LM	G	B	O&M	1-1	--
	7	MJC FI	DHW	Y	Y	60% Chrysotile	2 units	G	B	O&M	1-1	--

<p>Material Description: MJC: Mud Joint Compound FI: Fitting Insulation: PI: Pipe Insulation DI: Duct Insulation FG: Fibreglass FT: Floor Tile CT: Ceiling Tile</p>	<p>Criteria for Condition of an ACM: G: ACM is in GOOD condition; No damage F: ACM is in FAIR condition; Less than 2% damage P: ACM is in POOR condition; Greater than 2% damage</p>	<p>Criteria for Access to an area containing ACM: A: All building occupants may have access to this area. B: Restricted to building staff only. C: Areas of the building behind walls or ceiling system.</p>
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Building ID: M-59 Date: Mar. 9, 2009 Project #: PR-08-043	Notes: 1) No ACM's were observed during time of survey.	Functional Space (FS #): 1020 Location: Room 110 Inspector (s): SB & SM
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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	--	12" x 12" FT (white)	Floor	N	--	--	--	--	--	Post 1986	--	--
Walls	13	Plaster	Wall	N	--	NAD	--	--	--	--	--	--
Ceiling	--	2' x 4' CT	Ceiling	N	--	--	--	--	--	Post 1986	--	--
Above Ceiling	--	Concrete	Deck	N	--	--	--	--	--	--	--	--
	--	Metal	Duct	N	--	--	--	--	--	--	--	--
	--	FG DI	Duct	N	--	--	--	--	--	--	--	--
	--	Clay Tile	Wall	N	--	--	--	--	--	--	--	--
	--	FG PI & FI	Chiller	N	--	--	--	--	--	--	--	--
	13	Plaster	Wall	N	--	NAD	--	--	--	--	--	--
Below Ceiling	--	Metal	Vent	N	--	--	--	--	--	--	--	--

Material Description: MJC: Mud Joint Compound FI: Fitting Insulation: PI: Pipe Insulation DI: Duct Insulation FG: Fibreglass FT: Floor Tile CT: Ceiling Tile	Criteria for Condition of an ACM: G: ACM is in GOOD condition; No damage F: ACM is in FAIR condition; Less than 2% damage P: ACM is in POOR condition; Greater than 2% damage	Criteria for Access to an area containing ACM: A: All building occupants may have access to this area. B: Restricted to building staff only. C: Areas of the building behind walls or ceiling system.
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Building ID: M-59	Notes:	Functional Space (FS #): 1024
Date: Mar. 9, 2009	1) HWH: One open end of aircell pipe insulation requires one encapsulation (0.2 LM). 2) HWH: Two damaged sections of magblock pipe insulation require two encapsulations (0.4 LM). 3) HWH: One damaged section of magblock pipe insulation requires one removal (0.5 LM).	Location: Room 114
Project #: PR-08-043		Inspector (s): SB & SM

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	--	Carpet	Floor	N	--	--	--	--	--	--	--	--
Walls	13	Plaster	Wall	N	--	NAD	--	--	--	--	--	--
Ceiling	--	2' x 4' CT	Ceiling	N	--	--	--	--	--	Post 1986	--	--
Above Ceiling	--	Concrete	Deck	N	--	--	--	--	--	--	--	--
	--	Metal	Duct	N	--	--	--	--	--	--	--	--
	16	FG DI (with tar paper layer)	Duct	Y	N	60% Chrysotile	3 LM	G	C	O&M	1-1	--
	--	Clay Tile	Wall	N	--	--	--	--	--	--	--	--
	13	Plaster	Wall	N	--	NAD	--	--	--	--	--	--
	--	Drywall	Wall	N	--	--	--	--	--	--	--	--
	6	Aircell PI	HWH	Y	Y	40% Chrysotile	3 LM	G	C	O&M	1-1	--
	6	Aircell PI	HWH	Y	Y	40% Chrysotile	0.2 LM	F	C	1 encapsulation	1-2	A208
	4	Magblock PI	HWH	Y	Y	25% Chrysotile	11 LM	G	C	O&M	1-1	--
	4	Magblock PI	HWH	Y	Y	25% Chrysotile	0.4 LM	F	C	2 encapsulations	1-2	A209, A211
	4	Magblock PI	HWH	Y	Y	25% Chrysotile	0.5 LM	P	C	1 removal	1-2	A210
	7	MJC FI	HWH	Y	Y	60% Chrysotile	5 units	G	C	O&M	1-1	--
	--	FG PI & FI	Chiller	N	--	--	--	--	--	--	--	--
	--	FG PI & FI	HWH	N	--	--	--	--	--	--	--	--
	--	Metal	Vent	N	--	--	--	--	--	--	--	--
Below Ceiling	--	--	--	--	--	--	--	--	--	--	--	--

<p>Material Description: MJC: Mud Joint Compound FI: Fitting Insulation: PI: Pipe Insulation DI: Duct Insulation FG: Fibreglass FT: Floor Tile CT: Ceiling Tile</p>	<p>Criteria for Condition of an ACM: G: ACM is in GOOD condition; No damage F: ACM is in FAIR condition; Less than 2% damage P: ACM is in POOR condition; Greater than 2% damage</p>	<p>Criteria for Access to an area containing ACM: A: All building occupants may have access to this area. B: Restricted to building staff only. C: Areas of the building behind walls or ceiling system.</p>
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Building ID: M-59	Notes: 1) HWH: Two open ends of aircell pipe insulation require two encapsulations (0.4 LM). 2) HWH: Two damaged sections of aircell pipe insulation require two encapsulations (0.4 LM). 3) HWH: One damaged section of magblock pipe insulation requires one removal (0.2 LM). 4) HWH: One damaged section of magblock pipe insulation requires one encapsulation (0.2 LM). 5) ACM Debris (Magblock PI) on ceiling requires clean-up (<1.0 m2). 6) ACM Debris (MJC FI) on ceiling requires clean-up (<1.0 m2). 7) DI: One damaged section of fiberglass duct insulation (with tar paper layer) requires one encapsulation (0.6 LM). 8) No access to room 115a	Functional Space (FS #): 1025 Location: Rooms 115, 115a & Hallway of Mens Washroom Inspector (s): SB & SM
Date: Mar. 9, 2009		
Project #: PR-08-043		

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	--	Ceramic Tile	Floor	N	--	--	--	--	--	--	--	--
Walls	13	Plaster	Wall	N	--	NAD	--	--	--	--	--	--
	--	Ceramic Tile	Wall	N	--	--	--	--	--	--	--	--
Ceiling	13	Plaster	Ceiling	N	--	NAD	--	--	--	--	--	--
Above Ceiling	--	Concrete	Deck	N	--	--	--	--	--	--	--	--
	16	FG DI (with tar paper layer)	Duct	Y	N	60% Chrysotile	9 LM	G	C	O&M	1-1	--
	16	FG DI (with tar paper layer)	Duct	Y	N	60% Chrysotile	0.6 LM	F	C	1 encapsulation	1-2	A219
	--	Clay Tile	Wall	N	--	--	--	--	--	--	--	--
	--	Metal	Drain	N	--	--	--	--	--	--	--	--
	--	Metal	Duct	N	--	--	--	--	--	--	--	--
	--	FG PI	HWH	N	--	--	--	--	--	--	--	--
	4	Magblock PI	HWH	Y	Y	25% Chrysotile	11 LM	G	C	O&M	1-1	--
	4	Magblock PI	HWH	Y	Y	25% Chrysotile	0.2 LM	F	C	1 encapsulation	1-2	A216
	4	Magblock PI	HWH	Y	Y	25% Chrysotile	0.2 LM	P	C	1 removal	1-2	A213
	7	MJC FI	HWH	Y	Y	60% Chrysotile	9 units	G	C	O&M	1-1	--
	6	Aircell PI	HWH	Y	Y	40% Chrysotile	5 LM	G	C	O&M	1-1	--
	6	Aircell PI	HWH	Y	Y	40% Chrysotile	0.8 LM	F	C	4 encapsulations	1-2	A212, A213, A214, A215
	4	ACM Debris (Magblock PI)	HWH	Y	Y	25% Chrysotile	<1.0 m2	P	C	clean-up	1-2	A217
	7	ACM Debris (MJC FI)	HWH	Y	Y	60% Chrysotile	<1.0 m2	P	C	clean-up	1-1	A218
Below Ceiling	--	--	--	--	--	--	--	--	--	--	--	--

Material Description: MJC: Mud Joint Compound FI: Fitting Insulation: PI: Pipe Insulation DI: Duct Insulation FG: Fibreglass FT: Floor Tile CT: Ceiling Tile	Criteria for Condition of an ACM: G: ACM is in GOOD condition; No damage F: ACM is in FAIR condition; Less than 2% damage P: ACM is in POOR condition; Greater than 2% damage	Criteria for Access to an area containing ACM: A: All building occupants may have access to this area. B: Restricted to building staff only. C: Areas of the building behind walls or ceiling system.
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Building ID: M-59	Notes: 1) All ACM's were observed to be in good condition during time of survey.	Functional Space (FS #): 1027
Date: Mar. 9, 2009		Location: Room 117
Project #: PR-08-043		Inspector (s): SB & SM

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	--	Carpet	Floor	N	--	--	--	--	--	--	--	--
	--	9" x 9" FT (green)	Floor	Y	N	Suspect ACM	27 m2	G	C	O&M	1-1	--
Walls	13	Plaster	Wall	N	--	NAD	--	--	--	--	--	--
Ceiling	--	2' x 4' CT	Ceiling	N	--	--	--	--	--	Post 1986	--	--
Above Ceiling	--	Concrete	Deck	N	--	--	--	--	--	--	--	--
	--	Clay Tile	Wall	N	--	--	--	--	--	--	--	--
	13	Plaster	Wall	N	--	NAD	--	--	--	--	--	--
	--	FG DI	Duct	N	--	--	--	--	--	--	--	--
	16	FG DI (with tar paper layer)	Duct	Y	N	60% Chrysotile	4 LM	G	C	O&M	1-1	--
Below Ceiling	--	--	--	--	--	--	--	--	--	--	--	--

Material Description:
 MJC: Mud Joint Compound
 FI: Fitting Insulation:
 PI: Pipe Insulation
 DI: Duct Insulation
 FG: Fibreglass
 FT: Floor Tile
 CT: Ceiling Tile

Criteria for Condition of an ACM:
 G: ACM is in GOOD condition; No damage
 F: ACM is in FAIR condition; Less than 2% damage
 P: ACM is in POOR condition; Greater than 2% damage

Criteria for Access to an area containing ACM:
 A: All building occupants may have access to this area.
 B: Restricted to building staff only.
 C: Areas of the building behind walls or ceiling system.



Building ID: M-59 Date: Mar. 9, 2009 Project #: PR-08-043	Notes: 1) All ACM's were observed to be in good condition during time of survey.	Functional Space (FS #): 1028 Location: Rooms 118A, 118B Inspector (s): SB & SM
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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	--	Carpet	Floor	N	--	--	--	--	--	--	--	--
	--	12" x 12" FT (beige)	Floor	N	--	--	--	--	--	Post 1986	--	--
	--	9" x 9" FT (green)	Floor	Y	N	Suspect ACM	15 m2	G	C	O&M	1-1	--
Walls	13	Plaster	Wall	N	--	NAD	--	--	--	--	--	--
Ceiling	--	2' x 4' CT	Ceiling	N	--	--	--	--	--	Post 1986	--	--
Above Ceiling	--	Concrete	Deck	N	--	--	--	--	--	--	--	--
	--	Clay Tile	Wall	N	--	--	--	--	--	--	--	--
	13	Plaster	Wall	N	--	NAD	--	--	--	--	--	--
	--	Drywall	Wall	N	--	--	--	--	--	--	--	--
	--	Metal	Duct	N	--	--	--	--	--	--	--	--
Below Ceiling	--	--	--	--	--	--	--	--	--	--	--	--

Material Description: MIC: Mud Joint Compound FI: Fitting Insulation: PI: Pipe Insulation DI: Duct Insulation FG: Fibreglass FT: Floor Tile CT: Ceiling Tile	Criteria for Condition of an ACM: G: ACM is in GOOD condition; No damage F: ACM is in FAIR condition; Less than 2% damage P: ACM is in POOR condition; Greater than 2% damage	Criteria for Access to an area containing ACM: A: All building occupants may have access to this area. B: Restricted to building staff only. C: Areas of the building behind walls or ceiling system.
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Building ID: M-59	Notes: 1) Suspect mould was observed to be on the ceiling tile (3 locations). 2) No ACM's were observed during time of survey.	Functional Space (FS #): 1030
Date: Mar. 9, 2009		Location: Rooms 119, 119A
Project #: PR-08-043		Inspector (s): SB & SM

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	--	Terrazzo	Floor	N	--	--	--	--	--	--	--	--
	--	12" x 12" FT (white)	Floor	N	--	--	--	--	--	Post 1986	--	--
Walls	13	Plaster	Wall	N	--	NAD	--	--	--	--	--	--
	--	Drywall	Wall	N	--	--	--	--	--	--	--	--
Ceiling	--	2' x 4' CT	Ceiling	N	--	--	--	--	--	Post 1986	--	--
Above Ceiling	--	Concrete	Deck	N	--	--	--	--	--	--	--	--
	--	Clay Tile	Wall	N	--	--	--	--	--	--	--	--
	13	Plaster	Wall	N	--	NAD	--	--	--	--	--	--
	--	Drywall	Wall	N	--	--	--	--	--	--	--	--
	--	FG DI	Duct	N	--	--	--	--	--	--	--	--
	--	Metal	Duct	N	--	--	--	--	--	--	--	--
	--	FG PI & FI	Chiller	N	--	--	--	--	--	--	--	--
Below Ceiling	--	Suspect Mould	Ceiling	N	--	--	3 locations	--	--	--	1-3	M1

Material Description: MJC: Mud Joint Compound FI: Fitting Insulation: PI: Pipe Insulation DI: Duct Insulation FG: Fibreglass FT: Floor Tile CT: Ceiling Tile	Criteria for Condition of an ACM: G: ACM is in GOOD condition; No damage F: ACM is in FAIR condition; Less than 2% damage P: ACM is in POOR condition; Greater than 2% damage	Criteria for Access to an area containing ACM: A: All building occupants may have access to this area. B: Restricted to building staff only. C: Areas of the building behind walls or ceiling system.
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Building ID: M-59 Date: Mar. 9, 2009 Project #: PR-08-043	Notes: 1) No ACM's were observed during time of survey.	Functional Space (FS #): 1031 Location: Hallway 101A, 101B Inspector (s): SB & SM
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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	--	Terrazzo	Floor	N	--	--	--	--	--	--	--	--
Walls	13	Plaster	Wall	N	--	NAD	--	--	--	--	--	--
Ceiling	--	2' x 4' CT	Ceiling	N	--	--	--	--	--	Post 1986	--	--
Above Ceiling	--	Concrete	Deck	N	--	--	--	--	--	--	--	--
	--	Clay Tile	Wall	N	--	--	--	--	--	--	--	--
	13	Plaster	Wall	N	--	NAD	--	--	--	--	--	--
	--	Metal	Duct	N	--	--	--	--	--	--	--	--
	--	FG PI & FI	Chiller	N	--	--	--	--	--	--	--	--
Below Ceiling	--	FG PI & FI (with aluminum casing)	Chiller	N	--	--	--	--	--	--	--	--

<p>Material Description: MIC: Mud Joint Compound FI: Fitting Insulation: PI: Pipe Insulation DI: Duct Insulation FG: Fibreglass FT: Floor Tile CT: Ceiling Tile</p>	<p>Criteria for Condition of an ACM: G: ACM is in GOOD condition; No damage F: ACM is in FAIR condition; Less than 2% damage P: ACM is in POOR condition; Greater than 2% damage</p>	<p>Criteria for Access to an area containing ACM: A: All building occupants may have access to this area. B: Restricted to building staff only. C: Areas of the building behind walls or ceiling system.</p>
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Building ID: M-59 Date: Mar. 9, 2009 Project #: PR-08-043	Notes: 1) No access above metal (with FG) ceiling tiles.	Functional Space (FS #): 1032 Location: Hallway Inspector (s): SB & SM
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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	--	12" x 12" FT (white)	Floor	N	--	--	--	--	--	Post 1986	--	--
Walls	13	Plaster	Wall	N	--	NAD	--	--	--	--	--	--
Ceiling	--	1' x 2' Metal (with FG)	Ceiling	N	--	--	--	--	--	Post 1986	--	--
Above Ceiling	--	--	--	--	--	--	--	--	--	--	--	--
Below Ceiling	--	--	--	--	--	--	--	--	--	--	--	--

<p>Material Description: MJC: Mud Joint Compound FI: Fitting Insulation: PI: Pipe Insulation DI: Duct Insulation FG: Fibreglass FT: Floor Tile CT: Ceiling Tile</p>	<p>Criteria for Condition of an ACM: G: ACM is in GOOD condition; No damage F: ACM is in FAIR condition; Less than 2% damage P: ACM is in POOR condition; Greater than 2% damage</p>	<p>Criteria for Access to an area containing ACM: A: All building occupants may have access to this area. B: Restricted to building staff only. C: Areas of the building behind walls or ceiling system.</p>
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Building ID: M-59	Notes: 1) All ACM's were observed to be in good condition during time of survey. 2) No access above solid ceiling.	Functional Space (FS #): 1034
Date: Mar. 9, 2009		Location: Printing Area
Project #: PR-08-043		Inspector (s): SB & SM

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	--	12" x 12" FT (white)	Floor	N	--	--	--	--	--	Post 1986	--	--
Walls	13	Plaster	Wall	N	--	NAD	--	--	--	--	--	--
Ceiling	13	Plaster	Ceiling	N	--	NAD	--	--	--	--	--	--
Above Ceiling	--	--	--	--	--	--	--	--	--	--	--	--
Below Ceiling	2	MJC FI	Chiller	Y	Y	60% Chrysotile	6 units	G	B	O&M	I-1	--
	--	FG PI	Chiller	N	--	--	--	--	--	--	--	--
	--	Metal	Duct	N	--	--	--	--	--	--	--	--

Material Description:
 MJC: Mud Joint Compound
 FI: Fitting Insulation:
 PI: Pipe Insulation
 DI: Duct Insulation
 FG: Fibreglass
 FT: Floor Tile
 CT: Ceiling Tile

Criteria for Condition of an ACM:
 G: ACM is in GOOD condition; No damage
 F: ACM is in FAIR condition; Less than 2% damage
 P: ACM is in POOR condition; Greater than 2% damage

Criteria for Access to an area containing ACM:
 A: All building occupants may have access to this area.
 B: Restricted to building staff only.
 C: Areas of the building behind walls or ceiling system.



Building ID: M-59	Notes: 1) No ACM's were observed during time of survey.	Functional Space (FS #): 1036
Date: Mar. 9, 2009		Location: Room 123
Project #: PR-08-043		Inspector (s): SB & SM

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	--	12" x 12" FT (white)	Floor	N	--	--	--	--	--	Post 1986	--	--
Walls	13	Plaster	Wall	N	--	NAD	--	--	--	--	--	--
Ceiling	--	2' x 4' CT	Ceiling	N	--	--	--	--	--	Post 1986	--	--
Above Ceiling	13	Plaster	Deck	N	--	NAD	--	--	--	--	--	--
	--	Drywall	Wall	N	--	--	--	--	--	--	--	--
	13	Plaster	Wall	N	--	NAD	--	--	--	--	--	--
	--	Metal	Duct	N	--	--	--	--	--	--	--	--
	--	FG PI & FI	Chiller	N	--	--	--	--	--	--	--	--
Below Ceiling	--	--	--	--	--	--	--	--	--	--	--	--

Material Description:
 MJC: Mud Joint Compound
 FI: Fitting Insulation:
 PI: Pipe Insulation
 DI: Duct Insulation
 FG: Fibreglass
 FT: Floor Tile
 CT: Ceiling Tile

Criteria for Condition of an ACM:
 G: ACM is in GOOD condition; No damage
 F: ACM is in FAIR condition; Less than 2% damage
 P: ACM is in POOR condition; Greater than 2% damage

Criteria for Access to an area containing ACM:
 A: All building occupants may have access to this area.
 B: Restricted to building staff only.
 C: Areas of the building behind walls or ceiling system.



Building ID: M-59	Notes: 1) Sample M59-13F was collected in this area. 2) Limited access above suspended ceiling due to duct system that runs throughout area.	Functional Space (FS #): 1040
Date: Mar. 9, 2009		Location: Hallway 102
Project #: PR-08-043		Inspector (s): SB & SM

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	--	12" x 12" FT (white)	Floor	N	--	--	--	--	--	Post 1986	--	--
Walls	13	Plaster	Wall	N	--	NAD	--	--	--	--	--	--
Ceiling	--	2' x 4' CT	Ceiling	N	--	--	--	--	--	Post 1986	--	--
Above Ceiling	--	Metal	Duct	N	--	--	--	--	--	--	--	--
	13	Plaster	Wall	N	--	NAD	--	--	--	--	--	--
	--	FG PI & FI	HWH	N	--	--	--	--	--	--	--	--
	--	Clay Tile	Wall	N	--	--	--	--	--	--	--	--
Below Ceiling	--	--	--	--	--	--	--	--	--	--	--	--

<p>Material Description: MIC: Mud Joint Compound FI: Fitting Insulation: PI: Pipe Insulation DI: Duct Insulation FG: Fibreglass FT: Floor Tile CT: Ceiling Tile</p>	<p>Criteria for Condition of an ACM: G: ACM is in GOOD condition; No damage F: ACM is in FAIR condition; Less than 2% damage P: ACM is in POOR condition; Greater than 2% damage</p>	<p>Criteria for Access to an area containing ACM: A: All building occupants may have access to this area. B: Restricted to building staff only. C: Areas of the building behind walls or ceiling system.</p>
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Building ID: M-59	Notes: 1) No ACM's were observed during time of survey.	Functional Space (FS #): 2002
Date: Mar. 9, 2009		Location: Rooms 213, 211 Mens Washroom, Women's Washroom
Project #: PR-08-043		Inspector (s): SB & SM

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	--	Ceramic Tile	Floor	N	--	--	--	--	--	--	--	--
Walls	--	Ceramic Tile	Wall	N	--	--	--	--	--	--	--	--
	--	Drywall	Wall	N	--	--	--	--	--	--	--	--
Ceiling	--	2' x 4' CT	Ceiling	N	--	--	--	--	--	--	--	--
Above Ceiling	--	Metal	Deck	N	--	--	--	--	--	--	--	--
	--	Concrete Block	Wall	N	--	--	--	--	--	--	--	--
	--	Drywall	Wall	N	--	--	--	--	--	--	--	--
	--	Metal	Duct	N	--	--	--	--	--	--	--	--
	--	FG PI & FI	HWH	N	--	--	--	--	--	--	--	--
	--	FG PI & FI	Chiller	N	--	--	--	--	--	--	--	--
Below Ceiling	--	--	--	--	--	--	--	--	--	--	--	--

Material Description: MJC: Mud Joint Compound FI: Fitting Insulation: PI: Pipe Insulation DI: Duct Insulation FG: Fibreglass FT: Floor Tile CT: Ceiling Tile	Criteria for Condition of an ACM: G: ACM is in GOOD condition; No damage F: ACM is in FAIR condition; Less than 2% damage P: ACM is in POOR condition; Greater than 2% damage	Criteria for Access to an area containing ACM: A: All building occupants may have access to this area. B: Restricted to building staff only. C: Areas of the building behind walls or ceiling system.
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Building ID: M-59	Notes: 1) No access above 1' x 2' Metal (with FG) ceiling.	Functional Space (FS #): 2005
Date: Mar. 9, 2009		Location: Rooms 208, 208A
Project #: PR-08-043		Inspector (s): SB & SM

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	--	12" x 12" FT (white)	Floor	N	--	--	--	--	--	Post 1986	--	--
Walls	13	Plaster	Wall	N	--	NAD	--	--	--	--	--	--
	--	Drywall	Wall	N	--	--	--	--	--	--	--	--
Ceiling	--	1' x 2' Metal (with FG)	Ceiling	N	--	--	--	--	--	--	--	--
Above Ceiling	--	--	--	--	--	--	--	--	--	--	--	--
Below Ceiling	--	--	--	--	--	--	--	--	--	--	--	--

<p>Material Description: MJC: Mud Joint Compound FI: Fitting Insulation: PI: Pipe Insulation DI: Duct Insulation FG: Fibreglass FT: Floor Tile CT: Ceiling Tile</p>	<p>Criteria for Condition of an ACM: G: ACM is in GOOD condition; No damage F: ACM is in FAIR condition; Less than 2% damage P: ACM is in POOR condition; Greater than 2% damage</p>	<p>Criteria for Access to an area containing ACM: A: All building occupants may have access to this area. B: Restricted to building staff only. C: Areas of the building behind walls or ceiling system.</p>
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Building ID: M-59 Date: Mar. 9, 2009 Project #: PR-08-043	Notes: 1) Sample M59-13C was collected in this area. 2) All ACM's were observed to be in good condition during time of survey. 3) Suspect mould was observed on the ceiling tile (1 location).	Functional Space (FS #): 2006 Location: Hallway 200 & Closets Inspector (s): SB & SM
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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	--	12" x 12" FT (white)	Floor	N	--	--	--	--	--	Post 1986	--	--
Walls	13	Plaster	Wall	N	--	NAD	--	--	--	--	--	--
Ceiling	--	2' x 4' CT	Ceiling	N	--	--	--	--	--	Post 1986	--	--
Above Ceiling	--	Concrete	Deck	N	--	--	--	--	--	--	--	--
	--	Clay Tile	Wall	N	--	--	--	--	--	--	--	--
	13	Plaster	Wall	N	--	NAD	--	--	--	--	--	--
	--	FG PI & FI	Chiller	N	--	--	--	--	--	--	--	--
	--	FG PI & FI	HWH	N	--	--	--	--	--	--	--	--
	16	FG DI (with tar paper layer)	Duct	Y	Y	60% Chrysotile	4 LM	G	C	O&M	1-1	--
Below Ceiling	--	Suspect Mould	Ceiling	N	--	--	1 location	--	--	--	1-3	M2

<p>Material Description: MIC: Mud Joint Compound FI: Fitting Insulation: PI: Pipe Insulation DI: Duct Insulation FG: Fibreglass FT: Floor Tile CT: Ceiling Tile</p>	<p>Criteria for Condition of an ACM: G: ACM is in GOOD condition; No damage F: ACM is in FAIR condition; Less than 2% damage P: ACM is in POOR condition; Greater than 2% damage</p>	<p>Criteria for Access to an area containing ACM: A: All building occupants may have access to this area. B: Restricted to building staff only. C: Areas of the building behind walls or ceiling system.</p>
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Building ID: M-59 Date: Mar. 9, 2009 Project #: PR-08-043	Notes: 1) Sample M59-13D was collected in this area. 2) All ACM's were observed to be in good condition during time of survey.	Functional Space (FS #): 2007 Location: Room 207 Inspector (s): SB & SM
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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	--	Carpet	Floor	N	--	--	--	--	--	--	--	--
	--	12" x 12" FT (brown)	Floor	N	--	--	--	--	--	--	--	--
Walls	13	Plaster	Wall	N	--	NAD	--	--	--	--	--	--
Ceiling	--	2'x 4' CT	Ceiling	N	--	--	--	--	--	Post 1986	--	--
Above Ceiling	--	Concrete	Deck	N	--	--	--	--	--	--	--	--
	--	Metal	Duct	N	--	--	--	--	--	--	--	--
	13	Plaster	Wall	N	--	NAD	--	--	--	--	--	--
	--	Clay Tile	Wall	N	--	--	--	--	--	--	--	--
	16	FG DI (with tar paper layer)	Duct	Y	Y	60% Chrysotile	8 LM	G	C	O&M	1-1	--
Below Ceiling	--	--	--	--	--	--	--	--	--	--	--	--

Material Description: MIC: Mud Joint Compound FI: Fitting Insulation: PI: Pipe Insulation DI: Duct Insulation FG: Fibreglass FT: Floor Tile CT: Ceiling Tile	Criteria for Condition of an ACM: G: ACM is in GOOD condition; No damage F: ACM is in FAIR condition; Less than 2% damage P: ACM is in POOR condition; Greater than 2% damage	Criteria for Access to an area containing ACM: A: All building occupants may have access to this area. B: Restricted to building staff only. C: Areas of the building behind walls or ceiling system.
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Building ID: M-59	Notes: 1) All ACM's were observed to be in good condition during time of survey.	Functional Space (FS #): 2008
Date: Mar. 9, 2009		Location: Room 206 Meeting Room
Project #: PR-08-043		Inspector (s): SB & SM

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	--	Carpet	Floor	N	--	--	--	--	--	--	--	--
	--	12" x 12" FT (brown)	Floor	N	--	--	--	--	--	--	--	--
Walls	13	Plaster	Wall	N	--	NAD	--	--	--	--	--	--
Ceiling	--	2'x 4' CT	Ceiling	N	--	--	--	--	--	Post 1986	--	--
Above Ceiling	--	Concrete	Deck	N	--	--	--	--	--	--	--	--
	--	FG DI	Duct	N	--	--	--	--	--	--	--	--
	13	Plaster	Wall	N	--	NAD	--	--	--	--	--	--
	--	Clay Tile	Wall	N	--	--	--	--	--	--	--	--
	16	FG DI (with tar paper layer)	Duct	Y	Y	60% Chrysotile	61 LM	G	C	O&M	1-1	--
	--	FG PI & FI	Chiller	N	--	--	--	--	--	--	--	--
	--	FG PI & FI	HWH	N	--	--	--	--	--	--	--	--
Below Ceiling	--	--	--	--	--	--	--	--	--	--	--	--

<p>Material Description: MJC: Mud Joint Compound FI: Fitting Insulation: PI: Pipe Insulation DI: Duct Insulation FG: Fibreglass FT: Floor Tile CT: Ceiling Tile</p>	<p>Criteria for Condition of an ACM: G: ACM is in GOOD condition; No damage F: ACM is in FAIR condition; Less than 2% damage P: ACM is in POOR condition; Greater than 2% damage</p>	<p>Criteria for Access to an area containing ACM: A: All building occupants may have access to this area. B: Restricted to building staff only. C: Areas of the building behind walls or ceiling system.</p>
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Building ID: M-59	Notes: 1) No access to room 201, 204 during time of survey 2) Rooms 201 & 204 have Metal CT, no access above ceiling in these areas. However, the above ceiling areas for these rooms were inspected from room 203. 3) Samples M59-18(A-C) were collected in this area.	Functional Space (FS #): 2009
Date: Mar. 9, 2009		Location: Rooms 201, 202, 202A, 202B, 203, 203A, 204
Project #: PR-08-043		Inspector (s): SB & SM

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	--	Carpet	Floor	N	--	--	--	--	--	--	--	--
	18	12" x 12" FT (green)	Floor	Y	N	10% Chrysotile	91 m2	G	C	O&M	1-1	--
Walls	13	Plaster	Wall	N	--	NAD	--	--	--	--	--	--
	--	Drywall (with covering)	Wall	N	--	--	--	--	--	--	--	--
Ceiling	--	2'x 4' CT	Ceiling	N	--	--	--	--	--	Post 1986	--	--
	--	1' x 2' Metal (with FG) CT	Ceiling	N	--	--	--	--	--	--	--	--
Above Ceiling	--	Concrete	Deck	N	--	--	--	--	--	--	--	--
	--	Metal	Duct	N	--	--	--	--	--	--	--	--
	13	Plaster	Wall	N	--	NAD	--	--	--	--	--	--
	--	Clay Tile	Wall	N	--	--	--	--	--	--	--	--
	16	FG DI (with tar paper layer)	Duct	Y	Y	60% Chrysotile	26 LM	G	C	O&M	1-1	--
	--	FG PI & FI	Chiller	N	--	--	--	--	--	--	--	--
	--	FG PI & FI	HWH	N	--	--	--	--	--	--	--	--
Below Ceiling	--	--	--	--	--	--	--	--	--	--	--	--

Material Description: MJC: Mud Joint Compound FI: Fitting Insulation: PI: Pipe Insulation DI: Duct Insulation FG: Fibreglass FT: Floor Tile CT: Ceiling Tile	Criteria for Condition of an ACM: G: ACM is in GOOD condition; No damage F: ACM is in FAIR condition; Less than 2% damage P: ACM is in POOR condition; Greater than 2% damage	Criteria for Access to an area containing ACM: A: All building occupants may have access to this area. B: Restricted to building staff only. C: Areas of the building behind walls or ceiling system.
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Building ID: M-59 Date: Mar. 4, 2009 Project #: PR-08-043	Notes: 1) All ACM 's were observed to be in good condition during time of survey. 2) Samples M59-14(A-C) were collected in this area.	Functional Space (FS #): SW02 Location: Stairwell Inspector (s): SB, SM & NR
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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	--	12" x 12" FT	Floor	N	--	--	--	--	--	Post 1986	--	--
	--	Rubber Mat	Floor	N	--	--	--	--	--	--	--	--
Walls	--	Concrete Block	Wall	N	--	--	--	--	--	--	--	--
	--	Concrete	Wall	N	--	--	--	--	--	--	--	--
	13	Plaster	Wall	N	--	NAD	--	--	--	--	--	--
	14	Textured Plaster	Wall	Y	Y	2% Chrysotile	26 m2	G	A	O&M	2-1	--
Ceiling	13	Plaster	Ceiling	N	--	NAD	--	--	--	--	--	--
	--	2' x 4' CT	Ceiling	N	--	--	--	--	--	Post 1986	--	--
Above Ceiling	--	Metal	Deck	N	--	--	--	--	--	--	--	--
	--	Concrete Block	Wall	N	--	--	--	--	--	--	--	--
	--	Drywall	Wall	N	--	--	--	--	--	--	--	--
	--	Metal	Duct	N	--	--	--	--	--	--	--	--
Below Ceiling	--	FG PI	HWH	N	--	--	--	--	--	--	--	--

Material Description: MIC: Mud Joint Compound FI: Fitting Insulation: PI: Pipe Insulation DI: Duct Insulation FG: Fibreglass FT: Floor Tile CT: Ceiling Tile	Criteria for Condition of an ACM: G: ACM is in GOOD condition; No damage F: ACM is in FAIR condition; Less than 2% damage P: ACM is in POOR condition; Greater than 2% damage	Criteria for Access to an area containing ACM: A: All building occupants may have access to this area. B: Restricted to building staff only. C: Areas of the building behind walls or ceiling system.
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Building ID: M-59 Date: Mar. 4, 2009 Project #: PR-08-043	Notes: 1) All ACM's were observed to be in good condition during time of survey. 2) Sample M59-13E was collected in this area.	Functional Space (FS #): SW03 Location: Stairwell Inspector (s): SB, SM & NR
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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	--	Terazzo	Floor	N	--	--	--	--	--	--	--	--
Walls	13	Plaster	Wall	N	--	NAD	--	--	--	--	--	--
Ceiling	--	2' x 4' CT	Ceiling	N	--	--	--	--	--	Post 1986	--	--
Above Ceiling	--	Concrete	Deck	N	--	--	--	--	--	--	--	--
	--	FG PI & FI	Drain	N	--	--	--	--	--	--	--	--
	13	Plaster	Wall	N	--	NAD	--	--	--	--	--	--
	--	Clay Tile	Wall	N	--	--	--	--	--	--	--	--
	16	FG DI (with tar paper layer)	Duct	Y	Y	60% Chrysotile	7 LM	G	C	O&M	1-1	--
Below Ceiling	--	--	--	--	--	--	--	--	--	--	--	--

Material Description: MIC: Mud Joint Compound FI: Fitting Insulation: PI: Pipe Insulation DI: Duct Insulation FG: Fibreglass FT: Floor Tile CT: Ceiling Tile	Criteria for Condition of an ACM: G: ACM is in GOOD condition; No damage F: ACM is in FAIR condition; Less than 2% damage P: ACM is in POOR condition; Greater than 2% damage	Criteria for Access to an area containing ACM: A: All building occupants may have access to this area. B: Restricted to building staff only. C: Areas of the building behind walls or ceiling system.
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Building ID: M-59 Date: Mar. 4, 2009 Project #: PR-08-043	Notes: 1) No access above solid ceiling. 2) Samples M59-8(A-C) were collected in this area.	Functional Space (FS #): SW04 Location: Stairwell Inspector (s): SB, SM & NR
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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	--	12" x 12" FT	Floor	N	--	--	--	--	--	Post 1986	--	--
	8	Linoleum (gray)	Floor	N	--	NAD	--	--	--	--	--	--
Walls	--	Concrete block	Wall	N	--	--	--	--	--	--	--	--
	13	Plaster	Wall	N	--	NAD	--	--	--	--	--	--
Ceiling	13	Plaster	Ceiling	N	--	NAD	--	--	--	--	--	--
	--	2' x 4' CT	Ceiling	N	--	--	--	--	--	Post 1986	--	--
Above Ceiling	--	Metal	Deck	N	--	--	--	--	--	--	--	--
Below Ceiling	--	Metal	Drain	N	--	--	--	--	--	--	--	--
	--	FG PI & FI	Drain	N	--	--	--	--	--	--	--	--

Material Description: MJC: Mud Joint Compound FI: Fitting Insulation: PI: Pipe Insulation DI: Duct Insulation FG: Fibreglass FT: Floor Tile CT: Ceiling Tile	Criteria for Condition of an ACM: G: ACM is in GOOD condition; No damage F: ACM is in FAIR condition; Less than 2% damage P: ACM is in POOR condition; Greater than 2% damage	Criteria for Access to an area containing ACM: A: All building occupants may have access to this area. B: Restricted to building staff only. C: Areas of the building behind walls or ceiling system.
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Building ID: M-59 Date: Mar. 4, 2009 Project #: PR-08-043	Notes: 1) No access above solid ceiling. 2) HWH: One damaged mud joint compound fitting requires one encapsulation (1 unit). 3) HWH: Residual mud joint compound fitting insulation requires one removal (1 unit). 4) HWH: ACM debris (mud joint compound fitting) on the hot water heating system requires clean-up (<1.0 m2).	Functional Space (FS #): PH01 Location: Penthouse Inspector (s): SB, SM & NR
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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	--	Concrete	Floor	N	--	--	--	--	--	--	--	--	
Walls	--	Concrete Block	Wall	N	--	--	--	--	--	--	--	--	
	13	Plaster	Wall	N	--	NAD	--	--	--	--	--	--	
Ceiling	13	Plaster	Ceiling	N	--	NAD	--	--	--	--	--	--	
	--	Concrete	Ceiling	N	--	--	--	--	--	--	--	--	
Above Ceiling	--	--	--	--	--	--	--	--	--	--	--	--	
Below Ceiling	7	MJC FI	HWH	Y	Y	60% Chrysotile	8 units	G	B	O&M	PH-EX	--	
	7	MJC FI	HWH	Y	Y	60% Chrysotile	1 unit	F	B	1 encapsulation	PH-EX	A15	
	7	Residual MJC FI	HWH	Y	Y	60% Chrysotile	1 unit	F	B	1 removal	PH-EX	A16	
	--	FG PI (with aluminum casing)	HWH	N	--	--	--	--	--	--	--	--	--
	1	MJC FI	Chiller	Y	Y	60% Chrysotile	8 units	G	B	O&M	PH-EX	--	
	--	FG PI & FI	Chiller	N	--	--	--	--	--	--	--	--	--
	--	FG PI (with aluminum casing)	Drain	N	--	--	--	--	--	--	--	--	--
	--	FG PI (with aluminum casing)	Chiller	N	--	--	--	--	--	--	--	--	--
	2	MJC FI	Drain	Y	Y	60% Chrysotile	3 units	G	B	O&M	PH-EX	--	
	--	FG PI (with aluminum casing)	Drain	N	--	--	--	--	--	--	--	--	--
--	Metal	Duct	N	--	--	--	--	--	--	--	--	--	
--	FG PI & FI (with aluminum casing)	DCW	N	--	--	--	--	--	--	--	--	--	
--	FG DI	Duct	N	--	--	--	--	--	--	--	--	--	
7		ACM Debris (MJC FI)	HWH	Y	Y		<1.0 m2	P	C	clean-up	PH-EX	A17	

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

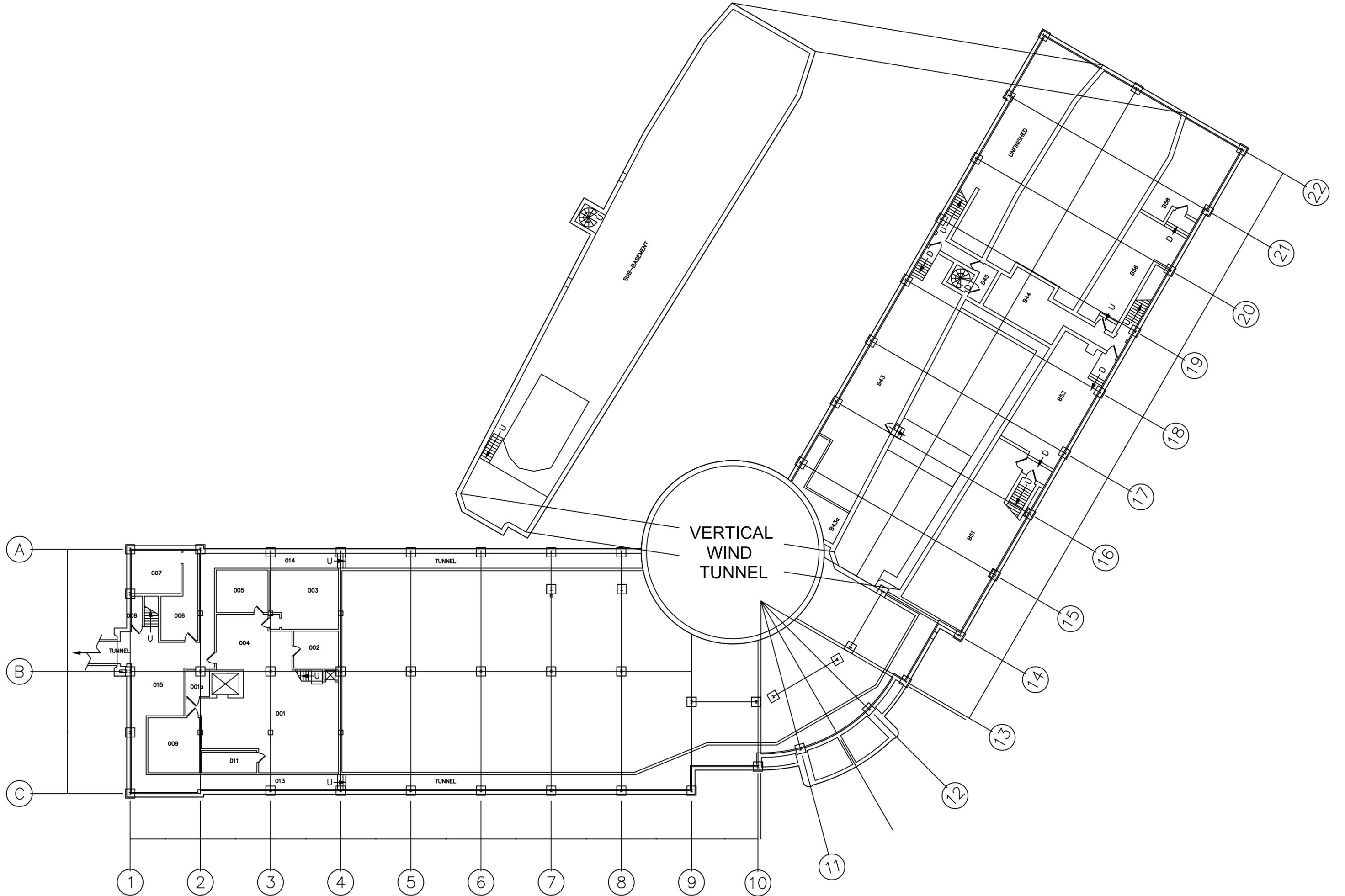
Each ACM material, after all considerations, is given an appropriate response. The following is an explanation of each response that may be given:

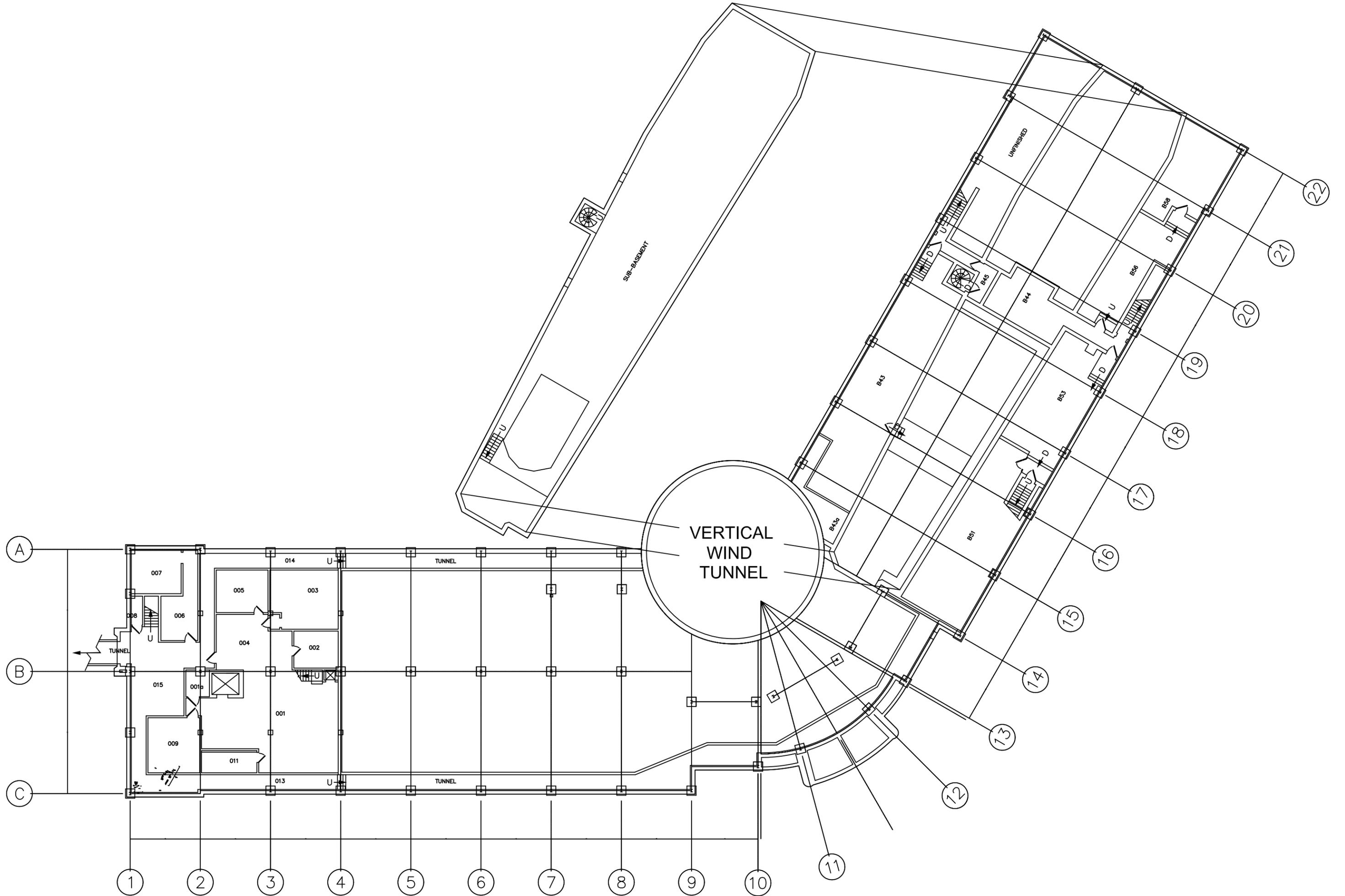
Removal: For extensively damaged materials that cannot sustain encapsulation or materials that pose a significant potential for an airborne release and exposure to building occupants (i.e. debris). Requires immediate attention and encapsulation is not an option.

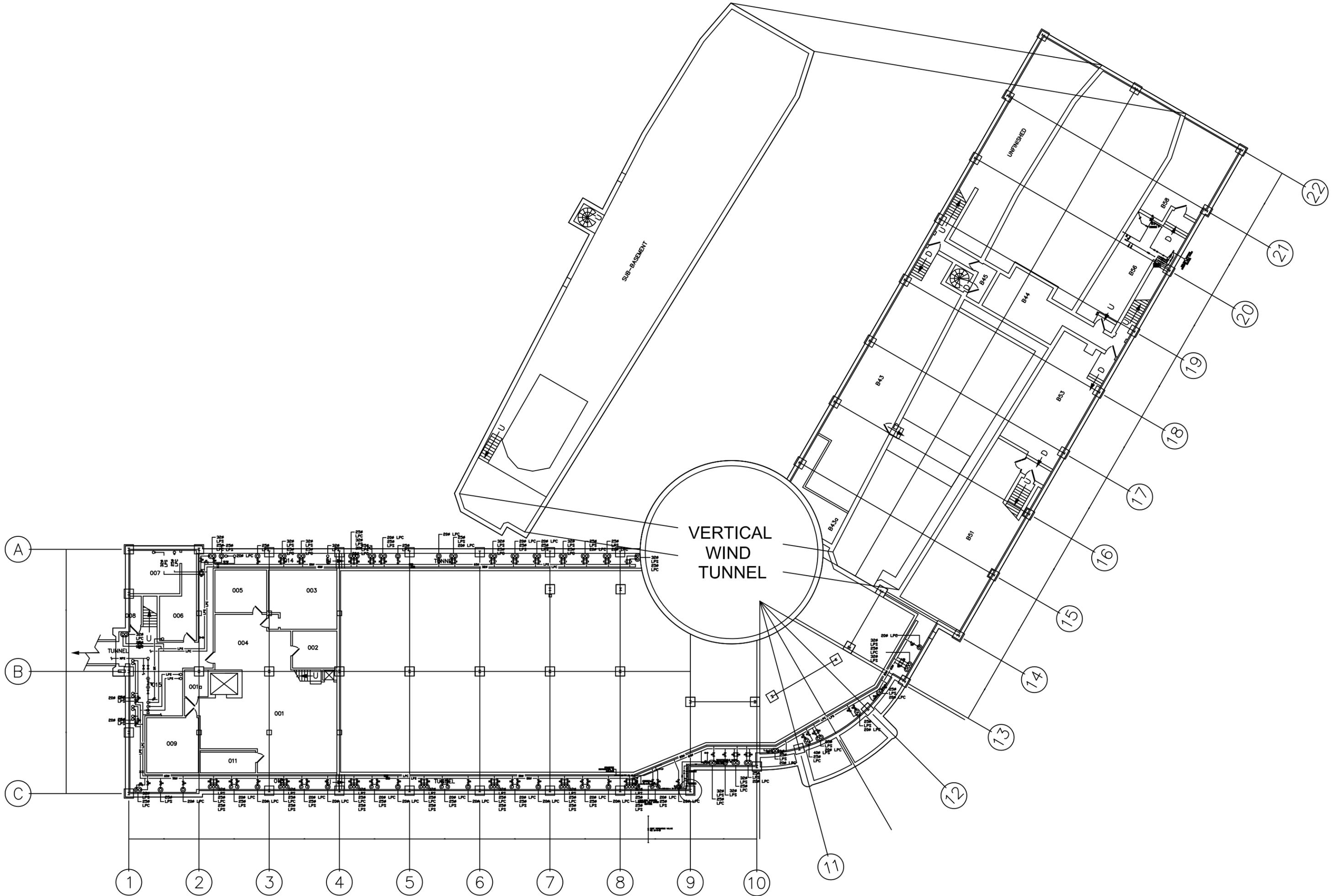
Encapsulation: Encapsulation involves the repair of damaged materials (i.e. canvas and lagging of damaged ACM pipe insulation). Materials that require encapsulation pose a potential risk of an airborne release ranging from low to high but restoration of the ACM is still a viable option. Encapsulation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

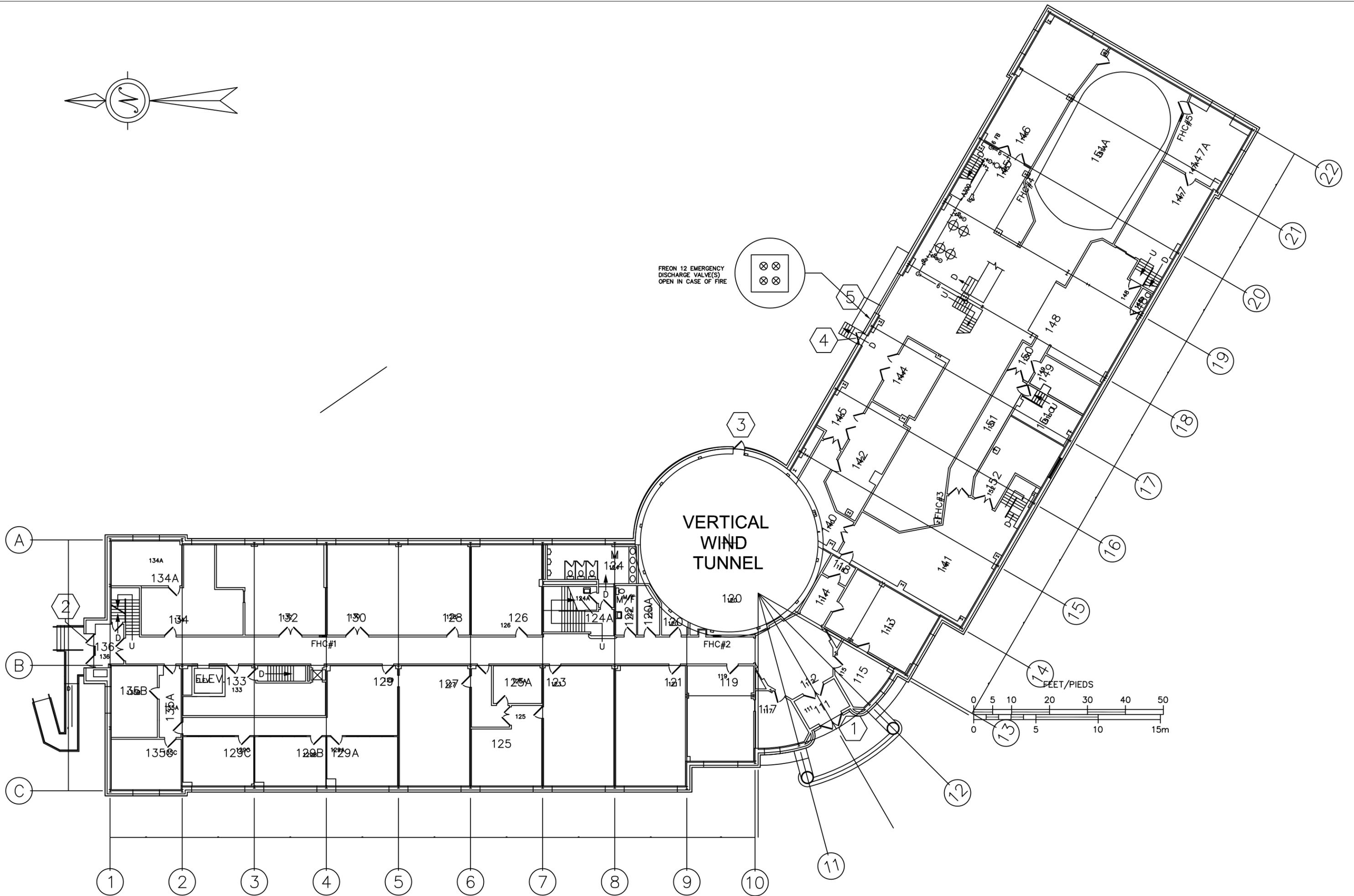
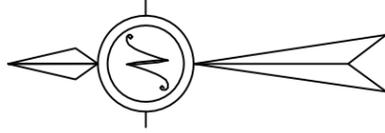
O & M Operations & Maintenance: These materials were found in good condition and should be periodically inspected.

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FREON 12 EMERGENCY DISCHARGE VALVE(S) OPEN IN CASE OF FIRE

