FINAL

Asbestos Reassessment

Deacon Road Booster Pumping Station and Reservoir
Deacons Road
Winnipeg, Manitoba

Prepared for:

City of Winnipeg Water and Waste Department
110 – 1199 Pacific Avenue-
Winnipeg, Manitoba R3E 3S8

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EXECUTIVE SUMMARY

City of Winnipeg Water and Waste Department (Client) retained Pinchin Ltd. (Pinchin) to conduct an asbestos building materials reassessment of Deacon Road Booster Pumping Station and Reservoir located at Deacons Road Winnipeg, Manitoba. The reassessment was performed on June 28, 2021.

The objective of the reassessment was to evaluate the condition and quantity of previously reported asbestos-containing materials (ACM), and develop corrective action plans as required for the purposes of long-term management. The results of this assessment are not intended for construction, renovation, demolition or project tendering purposes.

SUMMARY OF FINDINGS

Asbestos-containing materials (ACM) are present as follows:

- Asbestos-containing vinyl floor tiles present throughout Basement 3 are non-friable materials which were generally in GOOD condition except for 5 SF of damage rated in FAIR condition within Location No.13.
- Asbestos-containing parging cement present as firestop within Basement 3 is a friable material which is in GOOD condition;
- Asbestos-containing black tar mastic on the lower part of the exterior wall of the building is a non-friable material which is in GOOD condition.
- Generator exhaust within the Garage, Location No.6 is jacketed with metal. Magblock has been confirmed present beneath the metal jacketing. The Magblock is presumed to contain asbestos. It is friable and is in GOOD condition.
- Ceramic tile setting compound has been previously confirmed to contain asbestos within the Main Floor Hallway adjacent the washrooms (Location No. 5). In the absence of additional testing ceramic tile setting compound where present throughout the remainder of the building must be presumed to contain asbestos. It is potentially friable and in GOOD condition; and
- Mortar present on masonry walls throughout the facility is presumed to contain asbestos, is potentially friable, and is in GOOD condition.

SUMMARY OF RECOMMENDATIONS

The following is a summary of significant recommendations; refer to the body of the report for detailed recommendations.

1. The following remedial action is required;
    a. Remove following Low Risk (Type 1) procedures 5 SF of damaged vinyl floor tiles from within the Hallway, Location No.13.
2. Perform a reassessment of asbestos materials on an annual basis
3. Prior to renovations or demolition, perform a pre-construction assessment to identify any hazardous materials that may be disturbed by the work.
4. Follow appropriate safe work procedures when handling or disturbing asbestos.

This Executive Summary is subject to the same standard limitations as contained in the report and must be read in conjunction with the entire report.

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APPENDICES

1.0 INTRODUCTION AND SCOPE

City of Winnipeg Water and Waste Department (Client) retained Pinchin Ltd. (Pinchin) to conduct an asbestos building materials reassessment at Deacons Road Winnipeg, Manitoba.

Pinchin performed the reassessment on June 28, 2021. The surveyor was accompanied by City of Winnipeg Water and Waste Department Representatives during the reassessment. The assessed area was occupied at the time of the assessment.

The objectives of the reassessment were to document the locations, quantities and conditions of previously identified asbestos containing building materials and develop corrective action plans as required. This reassessment is only to be used for the purposes of long-term management and routine maintenance. The results of this reassessment are not to be used for construction, renovation, demolition or project tendering purposes.

1.1 Scope of Assessment

The objective of the reassessment was to evaluate the condition and quantity of previously reported asbestos-containing materials (ACM), and develop corrective action plans as required.

Additional objectives included the following:

- Documentation of any asbestos abatement that was performed since the last reassessment.

Please refer to Appendix II for a detailed description of the methodology used for this assessment.

2.0 METHODOLOGY

Pinchin conducted an inspection of previously identified asbestos-containing materials (ACM) to evaluate the current condition of all accessible identified in the most recent assessment. The surveyor made reference to any existing assessment or abatement reports (as provided by the Client).

As per the original scope of work, concealed locations such as ceiling spaces above solid ceilings, shafts and chases were accessed via existing access panels. Our investigation did not include demolition of drywall or plaster walls to view concealed conditions. Structural items or exterior building finishes were not removed to determine the presence of concealed materials.

For further details on the methodology including test methods, refer to Appendix I.

3.0 BACKGROUND INFORMATION

3.1 Existing Reports and Summary of Asbestos Abatement

3.1.1 Review of Previous Reports

The reassessment was based on information gathered from the previous comprehensive assessment report completed by Pinchin. The original assessment report for the Deacon Road Booster Pumping Station and Reservoir was dated March 6, 2007. The results of the original report and subsequent survey update reports were reviewed prior to completing the reassessment.

3.1.2 Summary of Asbestos Abatement since the Previous Assessment

Abatement work has been completed on site since the last assessment. Based on a review of the above noted abatement reports, and observations made during the reassessment, the following abatement work has been conducted, since completion of the previous report:

- Previously identified damaged/exposed parging cement present as fire-stop within Location No.13 was repaired during 2020.

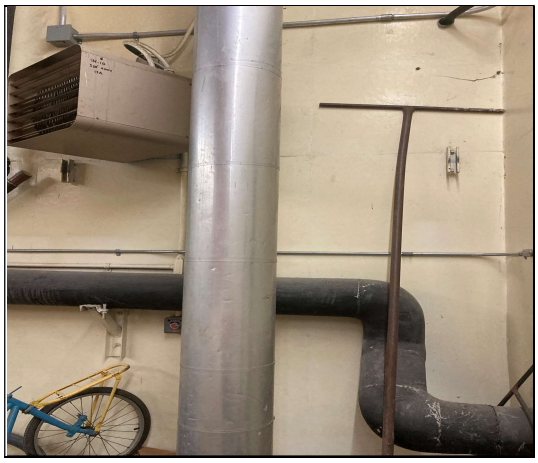
4.0 FINDINGS

The following section summarizes the findings of the reassessment and provides a general description of the asbestos-containing materials (ACM) identified and their locations.

For details on approximate quantities, condition, friability and locations of asbestos materials; refer to the Asbestos Material Summary Report and HMIS Data Report in Appendix IV and V.

4.1 Mechanical Equipment Insulation

Generator exhaust within the Garage, Location No.6 is jacketed with metal. Magblock has been confirmed present beneath the metal jacketing. The Magblock is presumed to contain asbestos. It is friable and is in GOOD condition.



Asbestos-containing Magblock jacketed with metal..

4.2 Vinyl Floor Tiles, Baseboard, and Stair Flooring

Asbestos-containing vinyl floor tiles are present within the Storage Room (Location No. 7), Stairwell Hallway (Location No. 8), Mechanical Room (Location No. 10), Control Room (Location No. 11) and Hallway (Location No. 13). Vinyl floor tiles are non-friable and are generally in GOOD condition except for 5 SF rated in fair condition within Hallway (Location No.13).

4.3 Firestopping

Parging cement encapsulated with paint is present as firestop where pipes pass through walls in Basement 3 located in the Storage Room (Location No. 7), Stairwell Hallway (Location No. 8), Stairwell (Location No. 9), Mechanical Room (Location No. 10) and Control Room Hallway (Location No. 13). Parging cement is a friable material which is in GOOD condition. Previously noted damage within Location No.13 was repaired.

Asbestos-containing parging cement present as firestop.

4.4 Sealants, Caulking, and Putty

Asbestos-containing black tar mastic, applied as a sealant on the exterior lower wall finish of the Building (Location No. 20) is non-friable and remains in GOOD condition.

4.5 Roofing Products

No visual inspection or sampling was conducted at this location. Roofing products are presumed to contain asbestos. Destructive testing will be required prior to any renovation or demolition activities.

4.6 Other Building Materials

Mortar on hollow core walls throughout the facility is presumed to contain asbestos. It is potentially friable, and is in GOOD condition.

Ceramic tile setting compound has been previously confirmed to contain asbestos within the Main floor Hallway adjacent the washrooms (Location No. 5) (Sample 0008A, Lab ID b216891). In the absence of additional testing the ceramic tile setting compound where present throughout the remainder of the building must be presumed to contain asbestos. It is potentially friable and in GOOD condition.

4.7 Excluded Asbestos Materials

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

- Roofing felts and tar, mastics;
- Floor levelling compound;
- Ceramic tile setting compound;

- Elevator and lift brakes;
- Electrical components;
- Moulded plastic components (laboratory bench tops);
- Refractory materials and insulations in boilers, incinerators and stacks;
- Insulation under metal clad boilers and vessels;
- Mechanical packing, ropes and gaskets;
- Vermiculite;
- Adhesives and duct mastics;
- Caulking and putties;
- Fibre-reinforced paints and coatings;
- Paper products;
- Soffit and fascia boards;
- Fire resistant doors;
- Metal clad finishes (Galbestos);
- Stucco, plaster or other cementitious parge coatings;
- Vibration dampers on HVAC equipment;
- Terrazzo;
- Ropes and gaskets in cast-iron bell and spigot joints; and
- Sealants on pipe threads.

5.0 RECOMMENDATIONS

5.1 General

Perform a detailed intrusive assessment prior to building renovation or demolition operations. The assessment should include; destructive testing (e.g. coring and/or removal of building finishes and components), sampling of other hazardous materials (lead, mercury, PCBs, mould, etc.), and materials not tested in this study (e.g. roofing materials, caulking, mastics).

5.2 Remedial Work

The following remedial work is recommended:

Material, Quantity & Condition	Location Name (Location #)	Recommended Procedure
5 SF, Vinyl floor Tiles	Hallway, Location No.13	Remove in accordance with Low Risk (Type 1) Procedures

5.3 On-going Management and Maintenance

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

Perform a reassessment of asbestos materials on an annual basis.

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

Update the asbestos inventory report for the building upon completion of any abatement of ACM.

6.0 TERMS AND LIMITATIONS

This work was performed subject to the Terms and Limitations presented or referenced in the proposal for this project.

Information provided by Pinchin is intended for Client use only. Pinchin will not provide results or information to any party unless disclosure by Pinchin is required by law. Any use by a third party of reports or documents authored by Pinchin or any reliance by a third party on or decisions made by a third party based on the findings described in said documents, is the sole responsibility of such third parties. Pinchin accepts no responsibility for damages suffered by any third party as a result of decisions made or actions conducted. No other warranties are implied or expressed.

7.0 REFERENCES

The following legislation and documents were referenced in completing the assessment and this report:

1. Workplace Safety and Health Act W210.
2. Workplace Safety and Health Hazard Regulation (Manitoba Regulation 217/2006), under the Workplace Safety and Health Act.
3. Manitoba Regulation MR 474/88, Manitoba PCB Regulation made under The Dangerous Goods Act.

4. Guide for Asbestos Management – Safe Work Manitoba.
5. Guideline Managing Demolition Debris Containing Hazardous Materials – Environmental Enforcement and Compliance Branch – Manitoba Conservation and Climate
6. Consolidated Transportation of Dangerous Goods Regulations, including Amendment SOR/2019-101, Transportation of Dangerous Goods Act.

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Template: Master Report for Asbestos Reassessment, HAZ, July 29, 2021

APPENDIX I

Methodology

1.0 METHODOLOGY

Pinchin conducts an inspection of previously identified asbestos-containing materials (ACM) to evaluate the current condition of all accessible identified in the most recent assessment. The surveyor makes reference to any existing assessment or abatement reports (as provided by the Client).

1.1 Limitations on Scope

The reassessment excludes the following:

- Articles belonging to the owner, tenant or occupant (e.g. stored items, furniture, appliances, etc.);
- Underground materials or equipment (e.g. vessels, drums, underground storage tanks, pipes, etc.);
- Building envelope, structural components, inaccessible or concealed materials or other items where sampling may cause consequential damage to the property.
- Energized systems (e.g. internal boiler components, elevators, mechanical or electrical components);
- Controlled products (e.g. stored chemicals, operational or process-related substances); and
- Materials not typically associated with construction (e.g. settled dust, spills, residual contamination from prior spills, etc.).

As per the original scope of work, concealed locations such as ceiling spaces above solid ceilings, shafts and chases are accessed via existing access panels. Our investigation does not include demolition of drywall or plaster walls to view concealed conditions. Structural items or exterior building finishes are not removed to determine the presence of concealed materials.

1.2 Methodology

Existing sampling data is reviewed and relied upon. If sampling is conducted, samples are collected at a rate that is in compliance with the requirements of local regulations and guidelines. The sampling strategy is also based on known ban dates and phase out dates of the use of asbestos; sampling of certain building materials is not conducted after specific construction dates. In addition, to be conservative, several years past these dates are added to account for some uncertainty in the exact start / finish date of construction and associated usage of ACM.

Materials listed as exclusions in the previous reports remain as exclusions. Sampling, assessment or verification of excluded materials was not conducted.

If present, the following materials are presumed to be asbestos-containing and are best sampled immediately prior to commencing renovation/disturbance:

- Roofing felts and tar, mastics;
- Floor levelling compound;
- Ceramic tile setting compound;
- Elevator and lift brakes;
- Electrical components or wiring within control centers, breakers, motors or lights, insulation on wiring;
- Moulded plastic components (laboratory bench tops);
- Refractory materials and insulations in boilers, incinerators and stacks;
- Insulation under metal clad boilers and vessels;
- Mechanical packing, ropes and gaskets;
- Vermiculite;
- Adhesives and duct mastics;
- Caulking and putties;
- Fibre-reinforced paints and coatings;
- Paper products;
- Soffit and fascia boards;
- Fire resistant doors;
- Metal clad finishes;
- Exterior cladding;
- Stucco, plaster or other cementitious parge coatings; and
- Vibration dampers on HVAC equipment.

2.0 ANALYSIS AND IDENTIFICATION OF ASBESTOS MATERIALS

Pinchin relies on the analytical results of prior surveys. Asbestos bulk samples (if required) are analyzed at an independent NVLAP accredited laboratory. Preliminary identification of asbestos fibres is made using polarized light microscopy, with confirmation of the presence and type of asbestos made by dispersion staining optical microscopy. The analysis is performed in accordance with Test Method EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials, June 1993. All independent laboratories used by Pinchin, including our laboratory, are certified under the National Voluntary Laboratory Accreditation Program (NVLAP) to perform asbestos analysis of bulk samples.

Analytical results are compared to the following criteria:

Jurisdiction	Friable	Non-Friable
Manitoba	0.1%[1]	1%
Federal	1%	1%

The asbestos analysis is completed using a stop positive approach. Only one result meeting the above regulated criteria is required to determine that a material is asbestos-containing, but all samples must be analyzed to conclusively determine that a material is non-asbestos. The laboratory stops analyzing samples from a homogeneous material once a result equal to or greater than the regulated criteria is detected in any of the samples of that material. All samples of a homogeneous material are analyzed if no asbestos is detected. In some cases, all samples are analyzed in the sample set regardless of result.

Where building materials are described in the report as “non-asbestos” or “does not contain asbestos”, this means that either no asbestos was detected by the analytical method utilized in any of the multiple samples or, if detected, it is below the lower limit of an asbestos-containing material in the applicable regulation.

Asbestos materials are evaluated in order to make recommendations regarding remedial work. The priority for remedial action is based on several factors:

- Friability (friable or non-friable);
- Condition (good, fair, poor, debris);
- Accessibility (ranking from accessible to all building users to inaccessible);
- Visibility (whether the material is obscured by other building components); and
- Efficiency of the work (for example, if damaged ACM is being removed in an area, it may be most practical to remove all ACM in the area even if it is in good condition).

For a complete description of the Evaluation Criteria and Basis of Recommendations, refer to Annex A.

Template: Methodology for Asbestos Re-Assessment, HAZ, January 10, 2020

METHODOLOGY ANNEX A EVALUATION CRITERIA

1.0 EVALUATION CRITERIA AND BASIS OF RECOMMENDATIONS

The detailed asbestos assessment provides information regarding the location, condition, accessibility and friability of the asbestos-containing materials (ACM). In order to make recommendations for compliance with current regulations, Pinchin developed the following criteria.

2.0 EVALUATION OF CONDITION

2.1 Friable Sprayed or Trowelled Fireproofing, Thermal Insulation and Texture Finishes (Surfacing Materials)

To evaluate the condition of ACM sprayed or trowelled on fireproofing, sprayed or trowelled thermal insulation (non-mechanical), or texture, decorative or acoustic finishes, the following criteria are applied:

Good	Surface of material shows no significant signs of damage, deterioration or delamination. Good condition includes unencapsulated or unpainted fireproofing or texture finishes, where no or limited delamination or damage is observed, or encapsulated fireproofing or texture finishes where the encapsulant or paint has been applied after the damage or fallout occurred.
Poor	A sprayed material that shows signs of significant damage or is significantly delaminating or deteriorating. This may be limited to surface delamination or some portion of the substrate may be exposed.

In Locations where damage exists in isolated areas, both good and poor condition may be applicable. The extent of each condition will be recorded. Fair condition is not utilized in the evaluation of ACM sprayed or trowelled fireproofing, sprayed or trowelled thermal insulation (non-mechanical), or texture, decorative or acoustic finishes.

The evaluation of the above products above ceilings may be limited by the number of observations and by building components such as ducts or full height walls that obstruct the above ceiling observations.

2.2 Friable Mechanical or Thermal System Insulation (TSI)

To evaluate the condition of mechanical insulation on vessels, boilers, breeching, ducts, pipes, fan units, equipment etc. the following criteria are applied:

Good	Insulation is completely covered in jacketing and exhibits no evidence of damage or deterioration. No insulation is exposed. Includes conditions where the jacketing has minor damage (i.e. scuffs or stains), but the jacketing is not penetrated.
Fair	Minor penetrating damage to jacketed insulation (cuts, tears, nicks, deterioration or delamination) or undamaged insulation that has never been jacketed. Insulation is exposed but not showing surface disintegration. The extent of missing insulation ranges from minor to none. Damage can be repaired.
Poor	Original insulation jacket is missing, damaged, deteriorated or delaminated. Insulation is exposed and significant areas have been dislodged. Damage cannot be readily repaired. Includes components where insulation may have been removed incompletely.

The evaluation of mechanical insulation may be limited by the number of observations made and building components such as ducts or full height walls that obstruct observations. It is often not possible to observe each foot of mechanical insulation from all angles.

2.3 Potentially Friable Materials and Miscellaneous Friable Materials

Potentially friable ACM are products that are basically non-friable while in place but have the potential to generate friable dust upon removal or if significantly disturbed without appropriate procedures. These products may become friable if damaged. Potentially friable materials include materials such as acoustic ceiling tiles and plaster. To evaluate the condition of potentially friable materials, the following criteria are applied:

Good	No significant damage or deterioration. Still serving its intended use as a building material or finish.
Fair	Showing signs of some cracking or breakage, but is not deteriorating (e.g. cracked plaster, broken but in place ceiling tile, missing tile or section of plaster etc.). The condition is such that it is still serving its intended use as a building material or finish but may require repair for mainly cosmetic purposes.
Poor	Significant deterioration or breaking apart of the material. Material has deteriorated to the point it is not serving its intended use as building material or finish. Material has deteriorated to a point it has become friable. Normally potentially friable ACM in Poor condition is not repairable and requires at least localized removal and replacement.

2.4 Non-Friable Materials

Non-friable ACM cover a wide range of products with a wide variation in their tendency to release dust or asbestos fibres to the air. Many of these materials, (particularly where the matrix is an unweathered bitumen, asphalt or tar material) do not release fibres except in very unusual circumstances or during

significant disturbance (e.g. use of abrasive power tools). Others with a cementitious matrix (asbestos-cement products) can more readily release dust due to abrasion, demolition, weathering, etc. The potential for asbestos release from non-friable ACM is always lower than from friable ACM. To evaluate the condition of non-friable Materials, the following criteria are applied:

Good	No significant damage or deterioration. Still serving its intended use as a building material or finish.
Fair	Showing signs of some cracking or breakage but is not deteriorating (e.g. cracked vinyl floor tile, missing piece of tile or transite, etc.). The condition is such that it is still serving its intended use as a building material or finish but may require repair for mainly cosmetic purposes.
Poor	Significant deterioration or breaking apart of the material to the point at which it cannot be repaired, and it will require at least local removal. Material has deteriorated to the point it is not serving its intended use as building material or finish. Material may have deteriorated to a point where traffic or disturbance may cause it to become friable.

2.5 Evaluation of ACM Debris

The identification of the exact location or presence of debris on the top of ceiling tiles is limited by the number of observations made and the presence of building components such as ducts or full height walls that obstruct observations.

The presence of fallen or dislodged ACM is noted separately from the ACM source and is referred to as Debris. Debris may be friable if from a friable ACM source or a badly deteriorated non-friable ACM source. Debris may also be non-friable (such as fallen pieces of transite sheet or mastic fittings, or broken, dislodged floor tiles).

Debris	Debris may be friable or non-friable but is always identified as debris.

2.6 Evaluation of Presumed Asbestos-Containing Material (PACM)

Presumed asbestos-containing materials (PACM), are building materials that may contain asbestos but were not sampled or analyzed due to inaccessibility or the need to perform destructive testing to obtain a reasonable sample set. Evaluation of these materials is based on the assumption that these PACM are asbestos-containing.

A list of PACM is provided in the report and they are generally not included in the detailed room by room reports. Typically, they are excluded because they are inaccessible or present in very small quantities. If PACM are evaluated, Pinchin uses the criteria that correspond with the type (and friability) of the material listed above.

3.0 EVALUATION OF ACCESSIBILITY

The accessibility of building materials known or suspected of being ACM is rated according to the following criteria:

Access (A)	Common areas of the building within reach of all building users (approximately 8 ’-9’ from floor or standard ceiling height). Includes other areas where occupant activities may result in disturbance of material that is not normally within reach from floor level, but may be disturbed by common activities (e.g. gymnasiums, workshops, warehouses)
Access (B)	Areas of the building accessed primarily by Maintenance/Caretaking/Janitorial Staff and within reach without use of a ladder. Includes areas within reach in Boiler Rooms, Electrical Rooms, Janitors Closets, Elevator Rooms, Mechanical Rooms, etc. Includes materials within reach from fixed ladders or catwalks, mezzanines, and accessible pipe chases.
Access (C) and Visible	Areas of the building above 8' - 9’ where use of a ladder or scaffold is required to reach the ACM. Only includes ACM that are visible to view without the removal or opening of other building components such as ceiling tiles or service access panels. Visible column on HMIS sheets will say YES.
Access (C) and not Visible	Areas of the building above 8' - 9’ where use of a ladder or scaffold is required to reach the ACM. Includes ACM that are not visible to view and require the removal of a building component to see, such as ceilings tiles or access panels to view and access. Includes rarely entered crawl spaces, attic spaces, etc. Observations will be limited to the extent visible from the access points. Visible column on HMIS sheets will say NO.
Access (D)	Areas of the building behind inaccessible solid ceiling systems, walls or equipment etc. where demolition of the ceiling, wall or equipment etc. is required to reach the ACM. Material inaccessible due to height or location or is only accessed under unusual situations. Evaluation of condition and extent of ACM is limited or impossible, depending on the surveyor's ability to visually examine materials in Access D.

4.0 ACTION MATRIX AND DEFINITIONS

Pinchin’s evaluation of the viability of a specific asbestos control option is based on the consideration of the friability, condition, accessibility and visibility of a material. The logic used is that damaged ACM located in an area frequently accessed by all building occupants is of a higher priority than damaged ACM located in an infrequently accessed service area. The action matrix considers the potential for fibre release (primarily from friable ACM) and the possible concerns from regulatory bodies and many building occupants to all damaged ACM (including non-friable).

In any building with asbestos, many current regulations require an Asbestos Management Program be implemented. Depending on the condition and the accessibility, more active measures such as repair or removal may be recommended. The following matrix provides guidance for recommended Actions in the absence of renovation or demolition. In the event of construction or maintenance activity which will disturb ACM more aggressive control or removal will be required.

4.1 Action Matrix

The following tables outline the action decisions based on the relationship of assessed factors. Table I applies to friable ACM. Table II applies to non-friable ACM.

Table I Decision Matrix for Friable ACM

Access	Condition			Debris
	Good	Fair	Poor	
(A)	Action 5[1]	Action 5[2]	Action 3	Action 1
(B)	Action 7	Action 6[3]	Action 3	Action 1
(C) Visible	Action 7	Action 6	Action 3	Action 2
(C) Not Visible	Action 7	Action 7	Action 4	Action 2
(D)	Action 7	Action 7	Action 7	Action 7

Table II Decision Matrix for Potentially Friable and Non-Friable ACM

Access	Condition			Debris
	Good	Fair	Poor	
(A)	Action 7	Action 7[4]	Action 3	Action 1
(B)	Action 7	Action 7	Action 3	Action 1
(C) Visible	Action 7	Action 7	Action 4	Action 2
(C) Not Visible	Action 7	Action 7	Action 4	Action 2
(D)	Action 7	Action 7	Action 7	Action 7

4.2 Action Definitions

The following are the definitions in the Action Matrix Table presented above:

Action Definitions	
Action 1	Clean-Up of ACM Debris Restrict access that is likely to cause a disturbance of the ACM Debris and clean up ACM Debris. Utilize appropriate asbestos precautions.

[1] If friable ACM in access (A)/Good condition is not proactively removed Action 7 (Manage) is recommended.
[2] If friable ACM in access (A)/Fair condition is not proactively removed repair is recommended.
[3] If friable ACM in access (B)/Fair condition is likely to be disturbed after repair proactive removal is recommended.
[4] Action 7 is recommended for all non-friable ACM in Fair condition however some clients may wish to repair or take some action primarily for cosmetic reasons

Action Definitions	
Action 2	Precautions for Access Which may Disturb ACM Debris Use appropriate means to isolate the debris or to limit entry to the area which may disturb the material. At locations where ACM Debris can remain in place in lieu of removal or clean-up (e.g. Debris on top of ceiling tiles or behind lockable door), Utilize appropriate asbestos precautions to enter the area if this will disturb debris. The precautions will be required until the ACM Debris has been cleaned up.
Action 3	ACM Removal Remove ACM. Utilize asbestos procedures appropriate to the scope of the removal work. Until it is removed, restrict access to the material so it is not disturbed.
Action 4	Precautions for Work Which may Disturb ACM in Poor Condition. Utilize appropriate asbestos precautions if ACM may be disturbed by work on or near ACM. This does not require restricting access to the area, only control of work which may contact or disturb the ACM. Removal is the only viable option if work will disturb ACM.
Action 5	Proactive ACM Removal Remove friable ACM where the presence of friable asbestos in Good condition is not desirable. If friable ACM in Fair condition is not removed, then Repair friable ACM.
Action 6	ACM Repair Repair friable ACM in Fair condition which is not likely to be damaged again or disturbed by normal use of the area or room. Pinchin recommends proactive removal if friable ACM is likely to be damaged or disturbed during normal use of the area or room
Action 7	Asbestos Management Program with Routine Surveillance Implement an Asbestos Management Program, including routine surveillance of ACM. Reassess materials regularly (typically once per year).

Master Template: Methodology Annex A to Appendix I Evaluation Criteria, HAZ, January 10, 2020

APPENDIX II

Location Summary Report

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

LOCATIONS LIST

PINCHIN
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Client:City of Winnipeg Water and Waste Dept **Site: , , MB**
Building Name: Deacon Booster Pumping Station
Survey Date: 2006-05-08 **Last Re-Assessment: 2019-07-03**

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Lobby	256	Main	A	Mortar on Masonry is presumed asbestos containing.
2	Stairwell	96	Main	A	Mortar on masonry is presumed asbestos containing.
3	Mens Washroom	96	Main	A	Setting compound on ceramic tiles is presumed asbestos-containing
4	Womens Washroom	128	Main	A	Setting compound on ceramic tiles is presumed to contain asbestos
5	Hallway	32	Main	A	Setting compound on ceramic tiles is asbestos containing.
6	Garage	1200	Main	A	Mag block 3 samples needs to be completed before any renovation or demolition work done on generator set exhaust.
7	Storage Room	128	Control Room (Basement 3)	A	Fibrous fireproofing with parging in Wall around pipe is at North wall
8	Stairwell Hallway	210	Control Room (Basement 3)	A	Fibrous fireproofing with parging in Wall around pipe is at West and South wall
9	Stairwell	192	Control Room (Basement 3)	A	Fibrous fireproofing with parging in Wall around pipe is at East and West wall
10	Mechanical Room	200	Control Room (Basement 3)	A	Fibrous fireproofing with parging in Wall around pipe is at North and South wall
11	Control Room	450	Control Room (Basement 3)	A	Old VAT were covered with new VAT
12	Compressor Room	600	Control Room (Basement 3)	A	
13	Hallway	100	Control Room (Basement 3)	A	Second layer of vft confirmed asbestos (July 2020, 275519) Parging Cement in Wall is at East and South wall Fibrous fireproofing with parging in Wall around pipe
14	Electrical Mezzanine	1800	Mezzanine Basement 2	A	
15	Generator Area	225	Mezzanine Basement 2	A	Generator Exhaust - New Installation - 2004
16	Pump Floor	10800	Pump Floor Basement 1	A	
17	Stairwell	96	Main	A	
18	Foyer	25	Main	A	
19	Chlorine Room	450	Main	A	
20	Deacon Booster Pumping Station Building Exterior	0	NA	A	Roof sections needs to be tested prior to any renovation or demolition activities. Mortar on masonry walls is presumed asbestos containing.

APPENDIX III

Asbestos Material Summary Report / Sample Log

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

PINCHIN
1.855.PINCHIN www.pinchin.com

Client:City of Winnipeg Water and Waste Dept **Site: , , MB** **Building Name: Deacon Booster Pumping Station** **Surveyor: Jason Combe** **Survey Date: 2006-05-08**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	S0001	PIPING | PARGING OVER FIBREGLASS | PARGING/FTG/RWL/LOCATION 2	2,3,4,5,6,19	A	0	0	38	0	None Detected	No
Asbestos	S0002	CEILING | CEILING TILES (LAY-IN) | ACOUSTIC TILE/AT-1/24X48/LOCATION 3 SAMPLES B (LOC. 4) AND C (LOC. 5) COMPLETED IN B215311 RESULT	3,4,5	A	0	256	0	0	None Detected	No
Asbestos	S0003	MECHANICAL EQUIPMENT | MORTAR | MAGBLOCK/GENE/LOCATION 6	6	A	30	0	0	0	None Detected	No
Asbestos	S0004	PIPING | PARGING OVER FIBREGLASS | PARGING/FTG/DW/LOCATION 6 SAMPLES B (LOC. 10) AND C (LOC. 13) COMPLETED IN B215311 RESULT	6,7,10,12,13,14,16,19	A	0	0	186	0	None Detected	No
Asbestos	S0005	OTHER | FIBREGLASS W/PARGING | PARGING/AROUND PIPE PASSING THROUGH WALL/LOCATION 13	7,8,9,10,13	A	0	10	0	0	Amosite	Yes
Asbestos	S0006	WALL | PLASTER | PLASTER ON CONCRETE, EXTERIOR WALL FOUNDATION, DEACON PUMPING STATION (SAMPLE NO. 0031 - AUGUST 28, 2015 - 1517151_PLM) (FOR SAMPLE 0006B-C IT WAS SAMPLE NO. 0031B-C- JUNE 30, 2016 - B131169)	20	A	0	30	0	0	None Detected	No
Asbestos	S0007	WALL | TAR | BLACK TAR ON EXTERIOR MASONRY LOWER WALL, DEACON PUMPING STATION (SAMPLE NO. 0032 - AUGUST 28, 2015) 1517151_PLM	20	A	0	80	0	0	Chrysotile	Yes
Asbestos	S0008 A	WALL | MORTAR | THINSET BEHIND CERAMIC TILE ON WALLS	5	A	0	0	0	100	Chrysotile	Yes
Asbestos	V9000	FLOOR | VINYL FLOOR TILE |	13	A	0	100	0	0	Confirmed Asbestos	Yes
Asbestos	V9000	FLOOR | VINYL FLOOR TILE AND MASTIC	7,8,10,11,13	A	0	1046	0	0	Confirmed Asbestos	Yes
Asbestos	V9500	FLOOR | MORTAR |	3,4	A	0	0	0	100	Presumed Asbestos	Yes
Asbestos	V9500	MECHANICAL EQUIPMENT | MAGNESIA BLOCK |	6	A	0	0	0	0	Presumed Asbestos	Yes
Asbestos	V9500	WALL | MORTAR	1,2,3,4,20	A	0	0	0	71	Presumed Asbestos	Yes
Asbestos	V0000	FLOOR | VINYL FLOOR TILE AND MASTIC |	11,13	A	0	508	0	0	Non Asbestos	No
Asbestos	V0000	MECHANICAL EQUIPMENT | MORTAR	15	A	20	0	0	0	Non Asbestos	No

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

APPENDIX IV

HMIS Data Report

Client: City of Winnipeg Water and Waste Dept **Site: Deacon Booster Pumping Station** **Building Name: Deacon Booster Pumping Station**
Location: #1 : Lobby **Floor: Main** **Room #:** **Area (sqft): 256**
Survey Date: 2006-05-08 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI													
Duct	Not Found	NI													
Floor		Concrete (poured)	Surface	Rubber	A	Y									
Mechanical Equipment	Not Found	NI													
Other	Not Found	NI													
Piping	Not Found	NI													
Structure	Beam, Deck	Concrete (poured)													
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry													

Mortar on Masonry is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: Deacon Booster Pumping Station** **Building Name: Deacon Booster Pumping Station**
Location: #2 : Stairwell **Floor: Main** **Room #:** **Area (sqft): 96**
Survey Date: 2006-05-08 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	Surface	Rubber	A	Y									
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		4			EA	S0001	None Detected	N.D.	None
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	No Information	NI											

Mortar on masonry is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: Deacon Booster Pumping Station** **Building Name: Deacon Booster Pumping Station**
Location: #3 : Mens Washroom **Floor: Main** **Room #:** **Area (sqft): 96**
Survey Date: 2006-05-08 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		96			SF	S0002	None Detected	N.D.	None
Duct	Return Air	Not Insulated	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor[1]	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Floor		Ceramic Tiles	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	N		2		1	EA	V0001	None Detected	N.D.	None
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Ceramic Tiles	No Information	NI											

Setting compound on ceramic tiles is presumed asbestos-containing
1 - Setting compound

Client: City of Winnipeg Water and Waste Dept **Site: Deacon Booster Pumping Station** **Building Name: Deacon Booster Pumping Station**
Location: #4 : Womens Washroom **Floor: Main** **Room #:** **Area (sqft): 128**
Survey Date: 2006-05-08 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		128			SF	S0002	None Detected	N.D.	None
Duct	Supply Air	Not Insulated	No Information	NI											
Floor[1]	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Floor		Ceramic Tiles	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	N		6			EA	V0001	None Detected	N.D.	None
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Ceramic Tiles	No Information	NI											

Setting compound on ceramic tiles is presumed to contain asbestos
1 - Setting compound

Client: City of Winnipeg Water and Waste Dept **Site: Deacon Booster Pumping Station** **Building Name: Deacon Booster Pumping Station**
Location: #5 : Hallway **Floor: Main** **Room #:** **Area (sqft): 32**
Survey Date: 2006-05-08 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		32			SF	S0002	None Detected	N.D.	None
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	Surface	Rubber	A	Y									
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	N		7			EA	V0001	None Detected	N.D.	None
Structure	Deck	Concrete (poured)	No Information	NI											
Wall[1]	All	Mortar, Thinset behind ceramic tile on walls	Surface	Ceramic Tiles	A	Y		100			%	S0008A	Chrysotile	0.1-1%	Confirmed Asbestos(NF)
Wall		Ceramic Tiles	No Information	NI											

Setting compound on ceramic tiles is asbestos containing.
1 - Confirmed asbestos August 2019 Lab ID b216891

Client: City of Winnipeg Water and Waste Dept **Site: Deacon Booster Pumping Station** **Building Name: Deacon Booster Pumping Station**
Location: #6 : Garage **Floor: Main** **Room #:** **Area (sqft): 1200**
Survey Date: 2006-05-08 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Generator Exhaust	Magnesia block		Metal								V9500	Presumed Asbestos		Presumed Asbestos(F)
Mechanical Equipment	Generator Exhaust	Mortar	System		C	Y		30			LF	S0003	None Detected	N.D.	None
Other	Not Found	NI	No Information	NI											
Piping	Domestic Water (Hot and Cold)	Parging over Fibreglass	Fitting	Canvas	C	Y		5		1	EA	S0004	None Detected	N.D.	None
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		14			EA	V0001	None Detected	N.D.	None
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Mag block 3 samples needs to be completed before any renovation or demolition work done on generator set exhaust.

Client: City of Winnipeg Water and Waste Dept **Site: Deacon Booster Pumping Station** **Building Name: Deacon Booster Pumping Station**
Location: #7 : Storage Room **Floor: Control Room (Basement 3)** **Room #:** **Area (sqft): 128**
Survey Date: 2006-05-08 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor	All	Vinyl Floor Tile and Mastic	Surface	N/A	A	Y		128			SF	V9000	Confirmed Asbestos		Confirmed Asbestos(NF)
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Other		Fibrous Fireproofing w/Parging	Surface		C	Y		2			SF	V0005	Amosite	10-25%	Confirmed Asbestos(F)
Piping	Domestic Water (Hot and Cold)	Parging over Fibreglass	Fitting	Canvas	C	Y		2			EA	V0004	None Detected	N.D.	None
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Fibrous fireproofing with parging in Wall around pipe is at North wall

Client: City of Winnipeg Water and Waste Dept **Site: Deacon Booster Pumping Station** **Building Name: Deacon Booster Pumping Station**
Location: #8 : Stairwell Hallway **Floor: Control Room (Basement 3)** **Room #:** **Area (sqft): 210**
Survey Date: 2006-05-08 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor	All	Vinyl Floor Tile and Mastic	Surface	N/A	A	Y		210			SF	V9000	Confirmed Asbestos		Confirmed Asbestos(NF)
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Other		Fibrous Fireproofing w/Parging	Surface		C	Y		2			SF	V0005	Amosite	10-25%	Confirmed Asbestos(F)
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Fibrous fireproofing with parging in Wall around pipe is at West and South wall

Client: City of Winnipeg Water and Waste Dept **Site: Deacon Booster Pumping Station** **Building Name: Deacon Booster Pumping Station**
Location: #9 : Stairwell **Floor: Control Room (Basement 3)** **Room #:** **Area (sqft): 192**
Survey Date: 2006-05-08 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Other		Fibreglass w/Parging	Surface		C	Y		2			SF	V0005	Amosite	10-25%	Confirmed Asbestos(F)
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Fibrous fireproofing with parging in Wall around pipe is at East and West wall

Client: City of Winnipeg Water and Waste Dept **Site: Deacon Booster Pumping Station** **Building Name: Deacon Booster Pumping Station**
Location: #10 : Mechanical Room **Floor: Control Room (Basement 3)** **Room #:** **Area (sqft): 200**
Survey Date: 2006-05-08 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Fresh Air Intake	Fibreglass	Surface	Canvas	C	Y									
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Vinyl Floor Tile and Mastic	Surface	N/A	A	Y		200			SF	V9000	Confirmed Asbestos		Confirmed Asbestos(NF)
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Mechanical Equipment	Heating Water Tank	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Other		Fibreglass w/Parging	Surface		C	Y		2			SF	V0005	Amosite	10-25%	Confirmed Asbestos(F)
Piping	Domestic Water (Hot and Cold)	Parging over Fibreglass	Fitting	Canvas	C	Y		16			EA	S0004	None Detected	N.D.	None
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Fibrous fireproofing with parging in Wall around pipe is at North and South wall

Client: City of Winnipeg Water and Waste Dept **Site: Deacon Booster Pumping Station** **Building Name: Deacon Booster Pumping Station**
Location: #11 : Control Room **Floor: Control Room (Basement 3)** **Room #:** **Area (sqft): 450**
Survey Date: 2006-05-08 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Vinyl Floor Tile and Mastic	Surface	Vinyl Floor Tile and Mastic	A	N		408			SF	V9000	Confirmed Asbestos		Confirmed Asbestos(NF)
Floor		Vinyl Floor Tile and Mastic	Surface	N/A	A	Y		408			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Old VAT were covered with new VAT

Client: City of Winnipeg Water and Waste Dept **Site: Deacon Booster Pumping Station** **Building Name: Deacon Booster Pumping Station**
Location: #12 : Compressor Room **Floor: Control Room (Basement 3)** **Room #:** **Area (sqft): 600**
Survey Date: 2006-05-08 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment		Not Insulated	No Information	NI											
Mechanical Equipment		Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Domestic Water (Hot and Cold)	Parging over Fibreglass	Fitting	Canvas	C	Y		8	4		EA	V0004	None Detected	N.D.	None
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: Deacon Booster Pumping Station** **Building Name: Deacon Booster Pumping Station**
Location: #13 : Hallway **Floor: Control Room (Basement 3)** **Room #:** **Area (sqft): 100**
Survey Date: 2006-05-08 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Fresh Air Intake	Fibreglass	Surface	Canvas	C	Y									
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Vinyl Floor Tile	Surface	Vinyl Floor Tile and Mastic	A	Y		95	5		SF	V9000	Confirmed Asbestos		Confirmed Asbestos(NF)
Floor		Vinyl Floor Tile and Mastic	Surface	Vinyl Floor Tile and Mastic	A	N		100			SF	V9000	Confirmed Asbestos		Confirmed Asbestos(NF)
Floor		Vinyl Floor Tile and Mastic	Surface	N/A	A	Y		100			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other		Fibreglass w/Parging	Surface		C	Y		2			SF	S0005	Amosite	10-25%	Confirmed Asbestos(F)
Piping	Domestic Water (Hot and Cold)	Parging over Fibreglass	Fitting	Canvas	C	Y		15			EA	S0004	None Detected	N.D.	None
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Second layer of vft confirmed asbestos (July 2020, 275519) Parging Cement in Wall is at East and South wall Fibrous fireproofing with parging in Wall around pipe

Client: City of Winnipeg Water and Waste Dept **Site: Deacon Booster Pumping Station** **Building Name: Deacon Booster Pumping Station**
Location: #14 : Electrical Mezzanine **Floor: Mezzanine Basement 2** **Room #:** **Area (sqft): 1800**
Survey Date: 2006-05-08 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Electrical Panel	Not Insulated	No Information	NI											
Piping	Domestic Water (Hot and Cold)	Parging over Fibreglass	Fitting	Canvas	C	Y		2			EA	V0004	None Detected	N.D.	None
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: Deacon Booster Pumping Station** **Building Name: Deacon Booster Pumping Station**
Location: #15 : Generator Area **Floor: Mezzanine Basement 2** **Room #:** **Area (sqft): 225**
Survey Date: 2006-05-08 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Generator Exhaust	Mortar	System	N/A	C	Y		20			LF	V0000	Non-Asbestos		None
Mechanical Equipment	Generator Unit	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Generator Exhaust - New Installation - 2004

Client: City of Winnipeg Water and Waste Dept **Site: Deacon Booster Pumping Station** **Building Name: Deacon Booster Pumping Station**
Location: #16 : Pump Floor **Floor: Pump Floor Basement 1** **Room #:** **Area (sqft): 10800**
Survey Date: 2006-05-08 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Pompe	Not Insulated	No Information	NI											
Mechanical Equipment	Pompe	Not Insulated	No Information	NI											
Mechanical Equipment	Pompe	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Domestic Water (Hot and Cold)	Parging over Fibreglass	Fitting	Canvas	C	Y		66		4	EA	V0004	None Detected	N.D.	None
Piping	Domestic Water (Hot and Cold)	Parging over Fibreglass	Fitting	Canvas	B	Y		25		6	EA	V0004	None Detected	N.D.	None
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: Deacon Booster Pumping Station** **Building Name: Deacon Booster Pumping Station**
Location: #17 : Stairwell **Floor: Main** **Room #:** **Area (sqft): 96**
Survey Date: 2006-05-08 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: Deacon Booster Pumping Station** **Building Name: Deacon Booster Pumping Station**
Location: #18 : Foyer **Floor: Main** **Room #:** **Area (sqft): 25**
Survey Date: 2006-05-08 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Fresh Air Intake	Fibreglass	Surface	Canvas	C	Y									
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: Deacon Booster Pumping Station** **Building Name: Deacon Booster Pumping Station**
Location: #19 : Chlorine Room **Floor: Main** **Room #:** **Area (sqft): 450**
Survey Date: 2006-05-08 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Domestic Water (Hot and Cold)	Parging over Fibreglass	Fitting	Canvas	C	Y		31		1	EA	V0004	None Detected	N.D.	None
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		4			EA	V0001	None Detected	N.D.	None
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											
Wall		Masonry	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: Deacon Booster Pumping Station** **Building Name: Deacon Booster Pumping Station**

Location: #20 : Deacon Booster Pumping Station Building Exterior **Floor: NA** **Room #:** **Area (sqft): 0**

Survey Date: 2006-05-08 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	Exterior	Clay Tile (block)	Exterior	N/A	A	Y		100			%				
Wall	Exterior	Plaster	Base	N/A	A	Y		30			SF	S0006	None Detected	N.D.	None
Wall	Exterior	Quarry tile	Exterior	N/A	A	Y		140			SF				
Wall	Exterior	Tar	Insulation	N/A	A	Y		80			SF	S0007	Chrysotile	5-10%	Confirmed Asbestos(NF)

Roof sections needs to be tested prior to any renovation or demolition activities. Mortar on masonry walls is presumed asbestos containing.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

FINAL

Asbestos Reassessment

Digesters Building, North End
Water Pollution Control Centre
2230 Main Street,
Winnipeg, Manitoba

Prepared for:

City of Winnipeg Water and Waste Department
110 – 199 Pacific Avenue
Winnipeg, Manitoba R3E 3S8

October 14, 2021

Pinchin File: 289439

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EXECUTIVE SUMMARY

City of Winnipeg Water and Waste Department (Client) retained Pinchin Ltd. (Pinchin) to conduct an asbestos building materials reassessment of the Digesters Building, North End Water Pollution Control Centre located at 2230 Main Street, Winnipeg, Manitoba. The reassessment was performed on June 23, 2021.

The objective of the reassessment was to evaluate the condition of the previously identified asbestos-containing building materials, develop corrective action plans as required for the purposes of long term management and to comply with Provincial asbestos management guidelines. The results of this reassessment are not intended for construction, renovation, demolition or project tendering purposes.

The reassessment was based on information gathered from previous comprehensive assessment report completed by Pinchin. The original assessment report for the Digesters Building, North End Water Pollution Control Centre was dated March 6, 2007. The results of the original report and subsequent survey update reports were reviewed prior to completing the reassessment.

The assessed areas were limited to parts of the building where the original report had indicated asbestos-containing materials (ACMs) were present. Rooms where no ACMs were reported were not inspected.

HMIS data has been updated online.

SUMMARY OF FINDINGS

ACM’s have been generally maintained in GOOD condition. ACMs are present as follows:

- Asbestos-containing parging cement is present on pipe fittings of the heating water, rainwater leader, gas, and domestic water systems throughout the building. Parging cement is friable material which was jacketed with canvas and is GOOD condition except for 1 fitting in FAIR and 5 SF of debris within Location No.33.
- Asbestos-containing parging cement is present on the fresh intake duct within Location No.’s 2, 6, 7, 11, 19, and 41. Parging cement is jacketed with canvas and is generally in GOOD condition except for damage rated in FAIR condition and debris present within Location No’s 6 and 7.
- Asbestos-containing parging cement is present on the boiler, boiler breeching, expansion tank, and condensate tank within the Boiler Room (Location No. 12). Parging cement is a friable material which was jacketed with canvas and is in GOOD condition.
- Asbestos-containing plaster is present as wall finish on the building exterior. The plaster is potentially friable and remains in GOOD condition.

- Drywall joint compound presumed to contain asbestos is present within Location No. 18. Drywall joint compound is potentially friable and is in GOOD condition; and
- Mortar/grout present on the concrete block and quarry tiles throughout the facility is presumed to contain asbestos. Mortar/grout are potentially friable and in GOOD condition.

SUMMARY OF RECOMMENDATIONS

The following is a summary of significant recommendations; refer to the body of the report for detailed recommendations.

1. The following items require immediate remedial action:
    a. Repair 10 SF of damaged/exposed parging cement on ducting within Location No.6 following Moderate Risk Procedures.
    b. Remove 10 SF of parging cement debris from the floor under the damaged duct within Location No.6.
    c. Repair 10 SF of damaged/exposed parging cement on ducting within Location No.7 following Moderate Risk Procedures.
    d. Remove 10 SF of parging cement debris from under the damaged duct within Location No.7 following Moderate Risk Procedures.
    e. Repair damaged/exposed parging cement from 1 fitting within Location No.33 following Moderate Risk Procedures.
    f. Remove 5 SF of parging cement debris from floor under the damaged fitting within Location No.33 following Moderate Risk Procedures.
2. Perform a reassessment of asbestos materials on an annual basis.
3. Prior to renovations or demolition, perform a pre-construction assessment to identify any hazardous materials that may be disturbed by the work.
4. Follow appropriate safe work procedures when handling or disturbing asbestos.

This Executive Summary is subject to the same standard limitations as contained in the report and must be read in conjunction with the entire report.

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APPENDICES

1.0 INTRODUCTION AND SCOPE

City of Winnipeg Water and Waste Department (Client) retained Pinchin Ltd. (Pinchin) to conduct an asbestos building materials reassessment of the Digesters Building Located at 2230 Main Street, Winnipeg, Manitoba.

Pinchin performed the reassessment on June 23, 2021. The surveyor was accompaniedaccompanied by City of Winnipeg Water and Waste Representatives during the reassessment. The assessed area was occupiedoccupied at the time of the assessment.

The objectives of the reassessment were to document the locations, quantities and conditions of previously identified asbestos containing building materials and develop corrective action plans as required. This reassessment is only to be used for the purposes of long-term management and routine maintenance. The results of this reassessment are not to be used for construction, renovation, demolition or project tendering purposes.

1.1 Scope of Assessment

The objective of the reassessment was to evaluate the condition and quantity of previously reported asbestos-containing materials (ACM), and develop corrective action plans as required.

Additional objectives included the following:

- Documentation of any asbestos abatement that was performed since the last reassessment.

Please refer to Appendix I for a detailed description of the methodology used for this assessment.

2.0 METHODOLOGY

Pinchin conducted an inspection of previously identified asbestos-containing materials (ACM) to evaluate the current condition of all accessible identified in the most recent assessment. The surveyor made reference to any existing assessment or abatement reports (as provided by the Client).

As per the original scope of work, concealed locations such as ceiling spaces above solid ceilings, shafts and chases were accessed via existing access panels. Our investigation did not include demolition of drywall or plaster walls to view concealed conditions. Structural items or exterior building finishes were not removed to determine the presence of concealed materials.

For further details on the methodology including test methods, refer to Appendix I.

3.0 BACKGROUND INFORMATION

3.1 Existing Reports and Summary of Asbestos Abatement

3.1.1 Review of Previous Reports

The reassessment was based on information gathered from previous comprehensive assessment report completed by Pinchin. The original assessment report for the Digesters Building, North End Water Pollution Control Centre was dated March 6, 2007. The results of the original report and subsequent survey update reports were reviewed prior to completing the reassessment.

3.1.2 Summary of Asbestos Abatement since the Previous Assessment

Abatement work has been completed on site since the last assessment. Based on a review of the above noted abatement reports, and observations made during the reassessment, the following abatement work has been conducted, since completion of the previous report:

- Parging cement was removed from 24 fittings within Location No.42.The fittings are now not insulated; and
- Previously reported damaged/exposed paging cement from 1 fitting within Location No.19 was removed.

4.0 FINDINGS

The following section summarizes the findings of the reassessment and provides a general description of the asbestos-containing materials (ACM) identified and their locations.

For details on approximate quantities, condition, friability and locations of asbestos materials; refer to the Asbestos Material Summary Report and HMIS Data Report in Appendix III and IV.

4.1 Pipe Insulation

Asbestos-containing parging cement is present on pipe fittings of the heating water, rainwater leader, gas, and domestic water systems throughout the building. Parging cement is a friable material which was jacketed with canvas and is generally in GOOD condition except for the following damage;

- Damaged/exposed parging cement on 1 fitting in FAIR condition on the Hot Water Heating System within the Boiler Storage Room, Location No.33. Five SF of parging cement debris is present on the floor under the damaged fitting.

Damaged/exposed parging cement Location No.33

Parging cement debris Location No.33

4.2 Duct Insulation and Mastic

Asbestos-containing parging cement is present on the fresh intake ducting within Location No.'s 2, 6, 7, 11, 19, and 41. Parging cement is jacketed with canvas and is generally in GOOD condition except for damage rated in FAIR condition and debris present within Location No's 6 and 7.

Damaged/exposed parging cement on intake ducting within Location No.'s 6 and 7

Parging cement debris present under the damaged ducting within Location No.'s 6 and 7.

4.3 Mechanical Equipment Insulation

Asbestos-containing parging cement is present on the boiler, boiler breeching, expansion tank, and condensate tank within the Boiler Room (Location No. 12). The parging cement is a friable material, was jacketed with canvas and is in GOOD condition.

Boiler Breeching within the Mechanical Room, Location No.16 was jacketed with metal. Thermal insulations suspect to contain asbestos are presumed present beneath the metal jacketing.

4.4 Plaster and Stucco

Plaster on the exterior wall of the Digester Building (back area) (Location No. 62) contains Chrysotile asbestos. Plaster finishes are non-friable while in place but can become friable during disturbance. Plaster finishes are in GOOD condition.

Asbestos-containing plaster present on exterior wall.

4.5 Drywall Joint Compound

Drywall joint compound presumed to contain asbestos is present within Location No. 18. Drywall joint compound is potentially friable and is in GOOD condition.

4.6 Roofing Products

No visual inspection or sampling was conducted at this location. The roofing materials are presumed to contain asbestos. Destructive testing will be required prior to any renovation or demolition activities.

4.7 Other Building Materials

Mortar present on masonry and quarry tile walls throughout the facility is presumed to contain asbestos. The mortar is potentially friable and is in GOOD condition.

4.8 Excluded Asbestos Materials

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

- Floor levelling compound;
- Ceramic tile setting compound;
- Elevator and lift brakes;

- Electrical components;
- Moulded plastic components (laboratory bench tops);
- Refractory materials and insulations in boilers, incinerators and stacks;
- Insulation under metal clad boilers and vessels;
- Mechanical packing, ropes and gaskets;
- Vermiculite;
- Adhesives and duct mastics;
- Caulking and putties;
- Fibre-reinforced paints and coatings;
- Paper products;
- Soffit and fascia boards;
- Fire resistant doors;
- Metal clad finishes (Galbestos);
- Stucco, plaster or other cementitious parge coatings;
- Vibration dampers on HVAC equipment;
- Ropes and gaskets in cast-iron bell and spigot joints; and
- Sealants on pipe threads.

5.0 RECOMMENDATIONS

5.1 General

Perform a detailed intrusive assessment prior to building renovation or demolition operations. The assessment should include; destructive testing (e.g. coring and/or removal of building finishes and components), sampling of other hazardous materials (lead, mercury, PCBs, mould, etc.), and materials not tested in this study (e.g. roofing materials, caulking, mastics).

5.2 Remedial Work

The following remedial work is recommended:

Material, Quantity & Condition	Location Name (Location #)	Recommended Procedure
Parging cement, 10 SF in FAIR condition and 10 SF of Debris	North Gallery 2, Location No.6	Repair damage and Remove debris in accordance with Moderate Risk Procedures
Parging cement, 10 SF in FAIR condition and 10 SF of Debris	South Gallery 2, Location No.7	Repair damage and Remove debris in accordance with Moderate Risk Procedures
Parging cement, 1 fitting in FAIR condition and 5 SF of debris,	Boiler Storage Room, Location No.33	Repair damage in accordance with Moderate Risk Procedures

5.3 On-going Management and Maintenance

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

Perform a reassessment of asbestos materials on an annual basis.

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

Update the asbestos inventory report for the building upon completion of any abatement of ACM.

6.0 TERMS AND LIMITATIONS

This work was performed subject to the Terms and Limitations presented or referenced in the proposal for this project.

Information provided by Pinchin is intended for Client use only. Pinchin will not provide results or information to any party unless disclosure by Pinchin is required by law. Any use by a third party of reports or documents authored by Pinchin or any reliance by a third party on or decisions made by a third party based on the findings described in said documents, is the sole responsibility of such third parties. Pinchin accepts no responsibility for damages suffered by any third party as a result of decisions made or actions conducted. No other warranties are implied or expressed.

7.0 REFERENCES

The following legislation and documents were referenced in completing the assessment and this report:

1. Workplace Safety and Health Act W210.
2. Workplace Safety and Health Hazard Regulation (Manitoba Regulation 217/2006), under the Workplace Safety and Health Act.
3. Manitoba Regulation MR 474/88, Manitoba PCB Regulation made under The Dangerous Goods Act.
4. Guide for Asbestos Management – Safe Work Manitoba.
5. Guideline Managing Demolition Debris Containing Hazardous Materials – Environmental Enforcement and Compliance Branch – Manitoba Conservation and Climate
6. Canada Occupational Health and Safety Regulation, SOR/86-304.
7. Consolidated Transportation of Dangerous Goods Regulations, including Amendment SOR/2019-101, Transportation of Dangerous Goods Act.

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Template: Master Report for Asbestos Reassessment, HAZ, July 29, 2021

APPENDIX I

Methodology

1.0 METHODOLOGY

Pinchin conducts an inspection of previously identified asbestos-containing materials (ACM) to evaluate the current condition of all accessible identified in the most recent assessment. The surveyor makes reference to any existing assessment or abatement reports (as provided by the Client).

1.1 Limitations on Scope

The reassessment excludes the following:

- Articles belonging to the owner, tenant or occupant (e.g. stored items, furniture, appliances, etc.);
- Underground materials or equipment (e.g. vessels, drums, underground storage tanks, pipes, etc.);
- Building envelope, structural components, inaccessible or concealed materials or other items where sampling may cause consequential damage to the property;
- Energized systems (e.g. internal boiler components, elevators, mechanical or electrical components);
- Controlled products (e.g. stored chemicals, operational or process-related substances); and
- Materials not typically associated with construction (e.g. settled dust, spills, residual contamination from prior spills, etc.).

As per the original scope of work, concealed locations such as ceiling spaces above solid ceilings, shafts and chases are accessed via existing access panels. Our investigation does not include demolition of drywall or plaster walls to view concealed conditions. Structural items or exterior building finishes are not removed to determine the presence of concealed materials.

1.2 Methodology

Existing sampling data is reviewed and relied upon. If sampling is conducted, samples are collected at a rate that is in compliance with the requirements of local regulations and guidelines. The sampling strategy is also based on known ban dates and phase out dates of the use of asbestos; sampling of certain building materials is not conducted after specific construction dates. In addition, to be conservative, several years past these dates are added to account for some uncertainty in the exact start / finish date of construction and associated usage of ACM.

Materials listed as exclusions in the previous reports remain as exclusions. Sampling, assessment or verification of excluded materials was not conducted.

If present, the following materials are presumed to be asbestos-containing and are best sampled immediately prior to commencing renovation/disturbance:

- Roofing felts and tar, mastics;
- Floor levelling compound;
- Ceramic tile setting compound;
- Elevator and lift brakes;
- Electrical components or wiring within control centers, breakers, motors or lights, insulation on wiring;
- Moulded plastic components (laboratory bench tops);
- Refractory materials and insulations in boilers, incinerators and stacks;
- Insulation under metal clad boilers and vessels;
- Mechanical packing, ropes and gaskets;
- Vermiculite;
- Adhesives and duct mastics;
- Caulking and putties;
- Fibre-reinforced paints and coatings;
- Paper products;
- Soffit and fascia boards;
- Fire resistant doors;
- Metal clad finishes;
- Exterior cladding;
- Stucco, plaster or other cementitious parge coatings; and
- Vibration dampers on HVAC equipment.

2.0 ANALYSIS AND IDENTIFICATION OF ASBESTOS MATERIALS

Pinchin relies on the analytical results of prior surveys. Asbestos bulk samples (if required) are analyzed at an independent NVLAP accredited laboratory. Preliminary identification of asbestos fibres is made using polarized light microscopy, with confirmation of the presence and type of asbestos made by dispersion staining optical microscopy. The analysis is performed in accordance with Test Method EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials, June 1993. All independent laboratories used by Pinchin, including our laboratory, are certified under the National Voluntary Laboratory Accreditation Program (NVLAP) to perform asbestos analysis of bulk samples.

Analytical results are compared to the following criteria:

Jurisdiction	Friable	Non-Friable
Manitoba	0.1%[1]	1%
Federal	1%	1%

The asbestos analysis is completed using a stop positive approach. Only one result meeting the above regulated criteria is required to determine that a material is asbestos-containing, but all samples must be analyzed to conclusively determine that a material is non-asbestos. The laboratory stops analyzing samples from a homogeneous material once a result equal to or greater than the regulated criteria is detected in any of the samples of that material. All samples of a homogeneous material are analyzed if no asbestos is detected. In some cases, all samples are analyzed in the sample set regardless of result.

Where building materials are described in the report as “non-asbestos” or “does not contain asbestos”, this means that either no asbestos was detected by the analytical method utilized in any of the multiple samples or, if detected, it is below the lower limit of an asbestos-containing material in the applicable regulation.

Asbestos materials are evaluated in order to make recommendations regarding remedial work. The priority for remedial action is based on several factors:

- Friability (friable or non-friable);
- Condition (good, fair, poor, debris);
- Accessibility (ranking from accessible to all building users to inaccessible);
- Visibility (whether the material is obscured by other building components); and
- Efficiency of the work (for example, if damaged ACM is being removed in an area, it may be most practical to remove all ACM in the area even if it is in good condition).

For a complete description of the Evaluation Criteria and Basis of Recommendations, refer to Annex A.

Template: Methodology for Asbestos Re-Assessment, HAZ, January 10, 2020

METHODOLOGY ANNEX A EVALUATION CRITERIA

1.0 EVALUATION CRITERIA AND BASIS OF RECOMMENDATIONS

The detailed asbestos assessment provides information regarding the location, condition, accessibility and friability of the asbestos-containing materials (ACM). In order to make recommendations for compliance with current regulations, Pinchin developed the following criteria.

2.0 EVALUATION OF CONDITION

2.1 Friable Sprayed or Trowelled Fireproofing, Thermal Insulation and Texture Finishes (Surfacing Materials)

To evaluate the condition of ACM sprayed or trowelled on fireproofing, sprayed or trowelled thermal insulation (non-mechanical), or texture, decorative or acoustic finishes, the following criteria are applied:

Good	Surface of material shows no significant signs of damage, deterioration or delamination. Good condition includes unencapsulated or unpainted fireproofing or texture finishes, where no or limited delamination or damage is observed, or encapsulated fireproofing or texture finishes where the encapsulant or paint has been applied after the damage or fallout occurred.
Poor	A sprayed material that shows signs of significant damage or is significantly delaminating or deteriorating. This may be limited to surface delamination or some portion of the substrate may be exposed.

In Locations where damage exists in isolated areas, both good and poor condition may be applicable. The extent of each condition will be recorded. Fair condition is not utilized in the evaluation of ACM sprayed or trowelled fireproofing, sprayed or trowelled thermal insulation (non-mechanical), or texture, decorative or acoustic finishes.

The evaluation of the above products above ceilings may be limited by the number of observations and by building components such as ducts or full height walls that obstruct the above ceiling observations.

2.2 Friable Mechanical or Thermal System Insulation (TSI)

To evaluate the condition of mechanical insulation on vessels, boilers, breeching, ducts, pipes, fan units, equipment etc. the following criteria are applied:

Good	Insulation is completely covered in jacketing and exhibits no evidence of damage or deterioration. No insulation is exposed. Includes conditions where the jacketing has minor damage (i.e. scuffs or stains), but the jacketing is not penetrated.
Fair	Minor penetrating damage to jacketed insulation (cuts, tears, nicks, deterioration or delamination) or undamaged insulation that has never been jacketed. Insulation is exposed but not showing surface disintegration. The extent of missing insulation ranges from minor to none. Damage can be repaired.
Poor	Original insulation jacket is missing, damaged, deteriorated or delaminated. Insulation is exposed and significant areas have been dislodged. Damage cannot be readily repaired. Includes components where insulation may have been removed incompletely.

The evaluation of mechanical insulation may be limited by the number of observations made and building components such as ducts or full height walls that obstruct observations. It is often not possible to observe each foot of mechanical insulation from all angles.

2.3 Potentially Friable Materials and Miscellaneous Friable Materials

Potentially friable ACM are products that are basically non-friable while in place but have the potential to generate friable dust upon removal or if significantly disturbed without appropriate procedures. These products may become friable if damaged. Potentially friable materials include materials such as acoustic ceiling tiles and plaster. To evaluate the condition of potentially friable materials, the following criteria are applied:

Good	No significant damage or deterioration. Still serving its intended use as a building material or finish.
Fair	Showing signs of some cracking or breakage, but is not deteriorating (e.g. cracked plaster, broken but in place ceiling tile, missing tile or section of plaster etc.). The condition is such that it is still serving its intended use as a building material or finish but may require repair for mainly cosmetic purposes.
Poor	Significant deterioration or breaking apart of the material. Material has deteriorated to the point it is not serving its intended use as building material or finish. Material has deteriorated to a point it has become friable. Normally potentially friable ACM in Poor condition is not repairable and requires at least localized removal and replacement.

2.4 Non-Friable Materials

Non-friable ACM cover a wide range of products with a wide variation in their tendency to release dust or asbestos fibres to the air. Many of these materials, (particularly where the matrix is an unweathered bitumen, asphalt or tar material) do not release fibres except in very unusual circumstances or during significant disturbance (e.g. use of abrasive power tools). Others with a cementitious matrix (asbestos-cement products) can more readily release dust due to abrasion, demolition, weathering, etc. The potential for asbestos release from non-friable ACM is always lower than from friable ACM. To evaluate the condition of non-friable Materials, the following criteria are applied:

Good	No significant damage or deterioration. Still serving its intended use as a building material or finish.
Fair	Showing signs of some cracking or breakage but is not deteriorating (e.g. cracked vinyl floor tile, missing piece of tile or transite, etc.). The condition is such that it is still serving its intended use as a building material or finish but may require repair for mainly cosmetic purposes.
Poor	Significant deterioration or breaking apart of the material to the point at which it cannot be repaired, and it will require at least local removal. Material has deteriorated to the point it is not serving its intended use as building material or finish. Material may have deteriorated to a point where traffic or disturbance may cause it to become friable.

2.5 Evaluation of ACM Debris

The identification of the exact location or presence of debris on the top of ceiling tiles is limited by the number of observations made and the presence of building components such as ducts or full height walls that obstruct observations.

The presence of fallen or dislodged ACM is noted separately from the ACM source and is referred to as Debris. Debris may be friable if from a friable ACM source or a badly deteriorated non-friable ACM source. Debris may also be non-friable (such as fallen pieces of transite sheet or mastic fittings, or broken, dislodged floor tiles).

Debris	Debris may be friable or non-friable but is always identified as debris.

2.6 Evaluation of Presumed Asbestos-Containing Material (PACM)

Presumed asbestos-containing materials (PACM), are building materials that may contain asbestos but were not sampled or analyzed due to inaccessibility or the need to perform destructive testing to obtain a reasonable sample set. Evaluation of these materials is based on the assumption that these PACM are asbestos-containing.

A list of PACM is provided in the report and they are generally not included in the detailed room by room reports. Typically, they are excluded because they are inaccessible or present in very small quantities. If PACM are evaluated, Pinchin uses the criteria that correspond with the type (and friability) of the material listed above.

3.0 EVALUATION OF ACCESSIBILITY

The accessibility of building materials known or suspected of being ACM is rated according to the following criteria:

Access (A)	Common areas of the building within reach of all building users (approximately 8 '-9' from floor or standard ceiling height). Includes other areas where occupant activities may result in disturbance of material that is not normally within reach from floor level, but may be disturbed by common activities (e.g. gymnasiums, workshops, warehouses)
Access (B)	Areas of the building accessed primarily by Maintenance/Caretaking/Janitorial Staff and within reach without use of a ladder. Includes areas within reach in Boiler Rooms, Electrical Rooms, Janitors Closets, Elevator Rooms, Mechanical Rooms, etc. Includes materials within reach from fixed ladders or catwalks, mezzanines, and accessible pipe chases.
Access (C) and Visible	Areas of the building above 8' - 9' where use of a ladder or scaffold is required to reach the ACM. Only includes ACM that are visible to view without the removal or opening of other building components such as ceiling tiles or service access panels. Visible column on HMIS sheets will say YES.
Access (C) and not Visible	Areas of the building above 8' - 9' where use of a ladder or scaffold is required to reach the ACM. Includes ACM that are not visible to view and require the removal of a building component to see, such as ceilings tiles or access panels to view and access. Includes rarely entered crawl spaces, attic spaces, etc. Observations will be limited to the extent visible from the access points. Visible column on HMIS sheets will say NO.
Access (D)	Areas of the building behind inaccessible solid ceiling systems, walls or equipment etc. where demolition of the ceiling, wall or equipment etc. is required to reach the ACM. Material inaccessible due to height or location or is only accessed under unusual situations. Evaluation of condition and extent of ACM is limited or impossible, depending on the surveyor's ability to visually examine materials in Access D.

4.0 ACTION MATRIX AND DEFINITIONS

Pinchin's evaluation of the viability of a specific asbestos control option is based on the consideration of the friability, condition, accessibility and visibility of a material. The logic used is that damaged ACM located in an area frequently accessed by all building occupants is of a higher priority than damaged ACM located in an infrequently accessed service area. The action matrix considers the potential for fibre release (primarily from friable ACM) and the possible concerns from regulatory bodies and many building occupants to all damaged ACM (including non-friable).

In any building with asbestos, many current regulations require an Asbestos Management Program be implemented. Depending on the condition and the accessibility, more active measures such as repair or removal may be recommended. The following matrix provides guidance for recommended Actions in the absence of renovation or demolition. In the event of construction or maintenance activity which will disturb ACM more aggressive control or removal will be required.

4.1 Action Matrix

The following tables outline the action decisions based on the relationship of assessed factors. Table I applies to friable ACM. Table II applies to non-friable ACM.

Table I Decision Matrix for Friable ACM

	Condition			
Access	**Good**	**Fair**	**Poor**	**Debris**
(A)	Action 5[1]	Action 5[2]	Action 3	Action 1
(B)	Action 7	Action 6[3]	Action 3	Action 1
(C) Visible	Action 7	Action 6	Action 3	Action 2
(C) Not Visible	Action 7	Action 7	Action 4	Action 2
(D)	Action 7	Action 7	Action 7	Action 7

Table II Decision Matrix for Potentially Friable and Non-Friable ACM

	Condition			
Access	**Good**	**Fair**	**Poor**	**Debris**
(A)	Action 7	Action 7[4]	Action 3	Action 1
(B)	Action 7	Action 7	Action 3	Action 1
(C) Visible	Action 7	Action 7	Action 4	Action 2
(C) Not Visible	Action 7	Action 7	Action 4	Action 2
(D)	Action 7	Action 7	Action 7	Action 7

[1] If friable ACM in access (A)/Good condition is not proactively removed Action 7 (Manage) is recommended.
[2] If friable ACM in access (A)/Fair condition is not proactively removed repair is recommended.
[3] If friable ACM in access (B)/Fair condition is likely to be disturbed after repair proactive removal is recommended.
[4] Action 7 is recommended for all non-friable ACM in Fair condition however some clients may wish to repair or take some action primarily for cosmetic reasons

4.2 Action Definitions

The following are the definitions in the Action Matrix Table presented above:

Action Definitions	
Action 1	Clean-Up of ACM Debris Restrict access that is likely to cause a disturbance of the ACM Debris and clean up ACM Debris. Utilize appropriate asbestos precautions.
Action 2	Precautions for Access Which may Disturb ACM Debris Use appropriate means to isolate the debris or to limit entry to the area which may disturb the material. At locations where ACM Debris can remain in place in lieu of removal or clean-up (e.g. Debris on top of ceiling tiles or behind lockable door), Utilize appropriate asbestos precautions to enter the area if this will disturb debris. The precautions will be required until the ACM Debris has been cleaned up.
Action 3	ACM Removal Remove ACM. Utilize asbestos procedures appropriate to the scope of the removal work. Until it is removed, restrict access to the material so it is not disturbed.
Action 4	Precautions for Work Which may Disturb ACM in Poor Condition. Utilize appropriate asbestos precautions if ACM may be disturbed by work on or near ACM. This does not require restricting access to the area, only control of work which may contact or disturb the ACM. Removal is the only viable option if work will disturb ACM.
Action 5	Proactive ACM Removal Remove friable ACM where the presence of friable asbestos in Good condition is not desirable. If friable ACM in Fair condition is not removed, then Repair friable ACM.
Action 6	ACM Repair Repair friable ACM in Fair condition which is not likely to be damaged again or disturbed by normal use of the area or room. Pinchin recommends proactive removal if friable ACM is likely to be damaged or disturbed during normal use of the area or room
Action 7	Asbestos Management Program with Routine Surveillance Implement an Asbestos Management Program, including routine surveillance of ACM. Reassess materials regularly (typically once per year).

Master Template: Methodology Annex A to Appendix I Evaluation Criteria, HAZ, January 10, 2020

APPENDIX II

Location Summary Report

Client:City of Winnipeg Water and Waste Dept **Site: , , MB**
Building Name: Digesters
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Digesters - East Entrance	800	Main	A	
2	Digesters - North Gallery 1	800	Main	A	Mortar on hollow core block walls is presumed asbestos containing.
3	Digesters - South Gallery 1	0	Main	A	Mortar on hollow core block walls is presumed asbestos containing.
4	Digesters - Centre Gallery 1	900	Main	A	
5	Digesters - Control Gallery 2	900	Main	A	
6	Digesters - North Gallery 2	800	Main	A	Damaged duct insulation and debris on floor - June 2021 Mortar on hollow core block walls is presumed asbestos containing.
7	Digesters - South Gallery 2	800	Main	A	Damaged Duct insulation and debris on floor - June 2021 Mortar on hollow core block walls is presumed asbestos containing.
8	Digesters - Centre Gallery 3	900	Main	A	
9	Digesters - North Gallery 3	750	Main	A	Mortar on hollow core block walls is presumed asbestos containing.
10	Digesters - South Gallery 3	750	Main	A	Mortar on hollow core block walls is presumed asbestos containing.
11	Digesters - Gallery 4 & Electrical Room	1500	Main	A	Mortar on hollow core block walls is presumed asbestos containing.
12	Boiler Building - Boiler Room	4000	Basement	A	Mortar on hollow core block walls is presumed asbestos containing.
13	Boiler Building - Storage/Main Entryway	800	Main	A	
14	Boiler Building - Washroom	40	Main	A	
15	Boiler Building - Storage/Electrical Room	80	Main	A	
16	Boiler Building - Boiler Mezzanine	1200	Main	A	New Boiler Mortar on hollow core block walls is presumed asbestos containing.
17	Boiler Building - Hallway/Fan Room	150	Main	A	
18	Boiler Building - Boiler Control Room	300	Main	A	
19	Digesters - Old Gas Room	4000	Main	A	
20	Digesters - South Fan Room Off Old Gas Room	120	Main	A	
21	Digesters - Gallery 6 Entrance	200	Main	A	Mortar on hollow core block walls is presumed asbestos containing.
22	Digesters - Hallway	150	Main	A	Mortar on hollow core block walls is presumed asbestos containing.
23	Digesters - Washroom	25	Main	A	Mortar on hollow core block walls is presumed asbestos containing.
24	Digesters - Control Room	540	Main	A	
25	Digesters - Hallway	50	Main	A	Mortar on hollow core block walls is presumed asbestos containing.
26	Digesters - Gallery 6	3600	Main	A	Mortar on hollow core block walls is presumed asbestos containing.
27	Digesters - Fan Room	200	Main	A	Mortar on hollow core block walls is presumed asbestos containing.
28	Digesters - Stairwell	350	Main	A	Mortar on hollow core block walls is presumed asbestos containing.
29	Digesters - Gallery 7	2000	Main	A	Mortar on hollow core block walls is presumed asbestos containing.
30	Digesters - Stairwell Northwest corner	350	Main	A	
31	Digesters - Fan Room	350	Main	A	
32	Digesters - Stairwell South	350	Main	A	
33	Boiler Building - Boiler Storage	80	Basement	A	Damaged pipe insulation and debris - June 2021 Mortar on hollow core block walls is presumed asbestos containing.
34	Burner Building - Burner Main Floor	400	Main-Burner	A	Mortar on hollow core block walls and quarry tile is presumed asbestos containing.
35	Burner Building - Burner	400	Basement-	A	Mortar on hollow core block walls is presumed asbestos

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
	Basement Room		Tunnel		containing.
36	Digesters - Gallery 7	2000	Basement-Tunnel	A	Openings in wall where pipes pass through.
37	Digesters - Gallery 1 East	1000	Basement	A	
38	Digesters - Gallery 1 West	2000	Basement	A	
39	Digesters - Gallery 2	2600	Basement	A	
40	Digesters - Gallery 3	2600	Basement	A	Mortar on hollow core block walls is presumed asbestos containing.
41	Digesters - Gallery 4	2800	Basement	A	
42	Digesters - Gallery 6	2800	Basement	A	Mortar on hollow core block walls is presumed asbestos containing.
43	Digesters - Storage	200	Basement	A	Mortar on hollow core block walls is presumed asbestos containing.
44	Digesters - Electrical Room	1500	Basement	A	Mortar on hollow core block walls is presumed asbestos containing.
45	Digesters - Fan Room	250	Basement	A	Mortar on hollow core block walls is presumed asbestos containing.
46	Digesters - Stairwell	300	Basement	A	Mortar on hollow core block walls is presumed asbestos containing.
47	Digesters - Gallery 7	5000	Basement	A	Mortar on hollow core block walls is presumed asbestos containing.
48	Digesters - Fan Room	300	Basement	A	Mortar on hollow core block walls is presumed asbestos containing.
49	Digesters - Stairwell	250	Basement	A	
50	Digesters - Stairwell	250	Basement	A	
51	Boiler Building - Room 31	400	Second	A	Mortar on hollow core block walls is presumed asbestos containing.
52	Boiler Building - Upstairs Main Area	400	Second	A	Mortar on hollow core block walls is presumed asbestos containing.
53	Digesters - Oil Storage Room	600	Second	A	
54	New Gas Room	2250	Second	A	
55	Digesters - Penthouse 5	800	Second	A	Mortar on hollow core block walls is presumed asbestos containing.
56	Digesters - Penthouse 3	400	Second	A	Mortar on hollow core block walls is presumed asbestos containing.
57	Digesters - Penthouse 1	400	Second	A	Mortar on hollow core block walls is presumed asbestos containing.
58	Digesters - Gallery 5	2800	Basement	A	
59	Exterior by Boiler Room	0	Main	A	Roof needs to be tested prior to any renovation or demolition activities. Grout (masonry mortar) on brick walls is presumed asbestos containing.
60	Exterior near Tanks 1-12, room no. Exterior	0	Main	A	Roof needs to be tested prior to any renovation or demolition activities. Mortar on brick walls is presumed asbestos containing.
61	Exterior near Tanks 13-14, room no. Exterior	0	Main	A	Roof needs to be tested prior to any renovation or demolition activities. Mortar on brick walls is presumed asbestos containing.
62	Exterior Back Area, room no. Exterior	0	Main	A	Roof needs to be tested prior to any renovation or demolition activities. Mortar on hollow core block walls presumed asbestos containing.

APPENDIX III

Asbestos Material Summary Report / Sample Log

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

PINCHIN
1.855.PINCHIN www.pinchin.com

Client:City of Winnipeg Water and Waste Dept **Site: , , MB** **Building Name: Digesters** **Surveyor: Jason Combe** **Survey Date: 2006-04-19**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	S0001	DUCT | FIBREGLASS W/PARGING | PARGING, DUCT, FAI, LOCATION 2	2,6,7,11,19,41	A	0	1110	0	0	Chrysotile	Yes
Asbestos	S0002	PIPING | SWEAT WRAP PIPE INSULATION | SWEATWRAP, STRAIGHT RUN, RWL, LOCATION 9 2 PHASES	9,19	A	14	0	0	0	None Detected	No
Asbestos	S0003	CEILING, PIPING | CEILING TILES (LAY-IN) | CEILING TILE, LOCATION 24	10,24	A	12	540	0	0	None Detected	No
Asbestos	S0004	DUCT | FIBREGLASS W/PARGING | PARGING, DUCT, FAI, LOCATION 34	34,35	A	0	15	0	0	None Detected	No
Asbestos	S0005	OTHER | PARGING CEMENT | PARGING, HANGERS AND OPENINGS, LOCATION 36	36	A	0	3	0	0	Chrysotile	Yes
Asbestos	S0006	FLOOR, PIPING | PARGING OVER FIBREGLASS | PARGING, FITTING, HWS, LOCATION 36	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,19 21,22,25,26,28,29,30,31,32,33,34,35,36,37,38 39,40,41,47,52,53,54,55,58	A	0	5	1398	0	Chrysotile	Yes
Asbestos	S0007	MECHANICAL EQUIPMENT | PARGING OVER FIBREGLASS | PARGING, BOILER, LOCATION 12	12	A	0	3450	0	0	Chrysotile	Yes
Asbestos	S0008	MECHANICAL EQUIPMENT | PARGING OVER FIBREGLASS | PARGING, EXPT, LOCATION 12	12	A	0	194	0	0	Chrysotile	Yes
Asbestos	S0009	CEILING | CEILING TILES (GLUE-ON) | CEILING TILE, LOCATION 18	18	A	0	215	0	0	None Detected	No
Asbestos	S0010	WALL | PLASTER | PLASTER WALL, LOCATION 59 EXTERIOR WALL BY BOILER ROOM (SAMPLED OCTOBER 14, 2014 AS S0001A TO C)	59	A	0	700	0	0	None Detected	No
Asbestos	S0011	DUCT | PARGING CEMENT | BLACK TAR MASTIC ON BLACK FOAM, EXTERIOR WALL BY TANKS 1 TO 12 (SAMPLED OCTOBER 14, 2014 AS S0002A TO C)	6	A	0	10	0	0	Chrysotile	Yes
Asbestos	S0013	WALL | PLASTER | PLASTER WALL, EXTERIOR WALL BY THE BACK (SAMPLED OCTOBER 14, 2014 AS S0004A TO C)	62	A	0	375	0	0	Chrysotile	Yes
Asbestos	S0014 ABC	MECHANICAL EQUIPMENT | PARGING OVER FIBREGLASS |	12	A	0	15	0	0	None Detected	No
Asbestos	S0015 ABC	MECHANICAL EQUIPMENT | FIBREGLASS | INSIDE BOILER DOOR	12	A	0	60	0	0	None Detected	No
Asbestos	S0016 ABC	MECHANICAL EQUIPMENT | GASKET |	12	A	0	15	0	0	None Detected	No
Asbestos	S0017 ABC	MECHANICAL EQUIPMENT | REFRACTORY CERAMIC FIBRE | INTERIOR SURFACE OF DOOR	12	A	0	45	0	0	None Detected	No
Asbestos	S0018 ABC	MECHANICAL EQUIPMENT | GASKET | WHITE	12	A	0	6	0	0	None Detected	No
Asbestos	S0019 ABC	MECHANICAL EQUIPMENT | PARGING OVER FIBREGLASS | INTERIOR OF BOILER DOOR	12	A	0	0	0	0	None Detected	No

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	V9500	MECHANICAL EQUIPMENT | UNIDENTIFIED MATERIAL |	16	A	0	0	0	100	Presumed Asbestos	Yes
Asbestos	V9500	WALL | DRYWALL AND JOINT COMPOUND |	18	A	0	0	0	50	Presumed Asbestos	Yes
Asbestos	V9500	WALL | MORTAR	2,3,6,7,9,10,11,12,13,14,15,16,21,22,23,25 26,27,28,29,33,34,35,40,42,43,44,45,46,47,48 51,52,55,56,57,59,60,61,62	A	0	0	0	93	Presumed Asbestos	Yes
Asbestos	V0000	FLOOR | VINYL SHEET FLOORING |	18	A	0	300	0	0	Non Asbestos	No
Asbestos	V0000	PIPING | NOT INSULATED |	13	A	0	0	0	0	Non Asbestos	No
Asbestos	V0000	WALL | CLAY TILE (BLOCK) |	60,61,62	A	0	0	0	100	Non Asbestos	No
Asbestos	V0000	WALL | CONCRETE (POURED)	60,61	A	0	0	0	100	Non Asbestos	No

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

APPENDIX IV

HMIS Data Report

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

ALL DATA REPORT

PINCHIN
1.855.PINCHIN www.pinchin.com

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**
Location: #1 : Digesters - East Entrance, Phase: A **Floor: Main** **Room #:** **Area (sqft): 800**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		2			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		2			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**

Location: #2 : Digesters - North Gallery 1, Phase: A **Floor: Main** **Room #:** **Area (sqft): 800**

Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Fresh Air Intake	Fibreglass w/Parging	No Information	Canvas	C	Y		10			SF	S0001	Chrysotile	50-75%	Confirmed Asbestos(F)
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		11			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		3			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Rain Water Leader	Fibreglass	Straight	Canvas	C	Y									
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		2			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Mortar on hollow core block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**

Location: #3 : Digesters - South Gallery 1, Phase: A **Floor: Main** **Room #:** **Area (sqft): 0**

Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		7			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		1			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Rain Water Leader	Fibreglass	Straight	Canvas	C	Y									
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		5			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Mortar on hollow core block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**

Location: #4 : Digesters - Centre Gallery 1, Phase: A **Floor: Main** **Room #:** **Area (sqft): 900**

Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		10			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		8			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**

Location: #5 : Digesters - Control Gallery 2, Phase: A **Floor: Main** **Room #:** **Area (sqft): 900**

Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		3			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		2			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Rain Water Leader	Fibreglass	Straight	Canvas	D	Y									
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	D	Y		4			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**

Location: #6 : Digesters - North Gallery 2, Phase: A **Floor: Main** **Room #:** **Area (sqft): 800**

Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Debris	Parging Cement								10	SF	V0011	Chrysotile	1-5%	Confirmed Asbestos(F)
Duct	Fresh Air Intake	Fibreglass w/Parging	Surface	Canvas	C	Y		190	10		SF	V0001	Chrysotile	50-75%	Confirmed Asbestos(F)
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		6			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		2			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Rain Water Leader	Fibreglass	Straight	Canvas	D	Y									
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	D	Y		6			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Damaged duct insulation and debris on floor - June 2021 Mortar on hollow core block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**

Location: #7 : Digesters - South Gallery 2, Phase: A **Floor: Main** **Room #:** **Area (sqft): 800**

Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Debris	Parging Cement								10	SF	V0001	Chrysotile	50-75%	Confirmed Asbestos(F)
Duct	Fresh Air Intake	Parging over Fibreglass	Surface	Canvas	C	Y		190	10		SF	V0001	Chrysotile	50-75%	Confirmed Asbestos(F)
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	D	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	D	Y		6			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	D	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	D	Y		4			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Rain Water Leader	Fibreglass	Straight	Canvas	D	Y									
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	D	Y		2			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Damaged Duct insulation and debris on floor - June 2021 Mortar on hollow core block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**

Location: #8 : Digesters - Centre Gallery 3, Phase: A **Floor: Main** **Room #:** **Area (sqft): 900**

Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Gas Pipe Line	Fibreglass	Straight	Canvas	C	Y									
Piping	Gas Pipe Line	Parging over Fibreglass	Fitting	Canvas	C	Y		3			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		2			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		2			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Rain Water Leader	Fibreglass	Straight	Canvas	C	Y									
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		4			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**

Location: #9 : Digesters - North Gallery 3, Phase: A **Floor: Main** **Room #:** **Area (sqft): 750**

Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		3			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Rain Water Leader	Sweat Wrap pipe insulation	Straight	Canvas	C	Y		12			LF	S0002	None Detected	N.D.	None
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Mortar on hollow core block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**

Location: #10 : Digesters - South Gallery 3, Phase: A **Floor: Main** **Room #:** **Area (sqft): 750**

Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Gas Pipe Line	Fibreglass	Straight	Canvas	C	Y									
Piping	Gas Pipe Line	Parging over Fibreglass	Fitting	Canvas	C	Y		1			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		5			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		16			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		3			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Rain Water Leader	Sweat Wrap pipe insulation	Straight	Canvas	C	Y		12			LF	V0003	None Detected	N.D.	None
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Mortar on hollow core block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**

Location: #11 : Digesters - Gallery 4 & Electrical Room, Phase: A **Floor: Main** **Room #:** **Area (sqft): 1500**

Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Fresh Air Intake	Fibreglass w/Parging	Surface	Canvas	C	Y		10			SF	V0001	Chrysotile	50-75%	Confirmed Asbestos(F)
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Electrical Panel	NI	No Information	NI											
Piping	Gas Pipe Line	Fibreglass	Straight	Canvas	C	Y									
Piping	Gas Pipe Line	Parging over Fibreglass	Fitting	Canvas	C	Y		180			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		14			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		12			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Rain Water Leader	Fibreglass	Straight	Canvas	C	Y									
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		4			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Mortar on hollow core block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**
Location: #12 : Boiler Building - Boiler Room, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 4000**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	N/A	NI	No Information	NI											
Duct	Fresh Air Intake	Fibreglass	No Information	Canvas	C	Y									
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment		Parging over Fibreglass	Surface	Canvas	B	Y		100			SF	S0008	Chrysotile	50-75%	Confirmed Asbestos(F)
Mechanical Equipment	Air Handling Unit	Fibreglass	Surface	Canvas	C	Y									
Mechanical Equipment	Boiler	Metal	Surface	Canvas	B	Y									
Mechanical Equipment	Boiler	Metal	Surface	N/A	B	Y									
Mechanical Equipment	Boiler	Metal	Surface	N/A	B	Y									
Mechanical Equipment	Boiler	Metal	Surface	N/A	B	Y									
Mechanical Equipment[1]	Boiler	Fibreglass, Inside boiler door			A	Y		40			SF	S0015AB	None Detected	N.D.	None
Mechanical Equipment[2]	Boiler	Fibreglass, Inside boiler door	Insulation		A	Y		20			SF	S0015C	None Detected	N.D.	None
Mechanical Equipment	Boiler	Parging over Fibreglass	Surface	Canvas	B	Y		1250			SF	S0007	Chrysotile	50-75%	Confirmed Asbestos(F)
Mechanical Equipment[3]	Boiler	Parging over Fibreglass			A	Y		15			SF	S0014ABC	None Detected	N.D.	None
Mechanical Equipment[4]	Boiler	Parging over Fibreglass, Interior of boiler door	Edge		A	Y					SF	S0019ABC	None Detected	N.D.	None
Mechanical Equipment[5]	Boiler	Gasket			A	Y		10			SF	S0016AB	None Detected	N.D.	None
Mechanical Equipment[6]	Boiler	Gasket	Edge		A	Y		5			SF	S0016C	None Detected	N.D.	None
Mechanical Equipment[7]	Boiler	Gasket, White			A	Y		6			SF	S0018ABC	None Detected	N.D.	None
Mechanical Equipment	Boiler	Refractory Ceramic Fibre, Interior surface of door			A	Y		45			SF	S0017ABC	None Detected	N.D.	None
Mechanical Equipment	Breeching	Parging over Fibreglass	Surface	Canvas	C	Y		400			SF	V0007	Chrysotile	50-75%	Confirmed Asbestos(F)
Mechanical Equipment	Breeching	Parging over Fibreglass	Surface	Canvas	C	Y		700			SF	V0007	Chrysotile	50-75%	Confirmed Asbestos(F)
Mechanical Equipment	Breeching	Parging over Fibreglass	Surface	Canvas	C	Y		700			SF	V0007	Chrysotile	50-75%	Confirmed Asbestos(F)

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Mechanical Equipment	Breeching	Parging over Fibreglass	Surface	Canvas	C	Y		400			SF	V0007	Chrysotile	50-75%	Confirmed Asbestos(F)
Mechanical Equipment	Condensate Tank	Parging over Fibreglass	Surface	Canvas	B	Y		94			SF	V0008	Chrysotile	50-75%	Confirmed Asbestos(F)
Other	Debris	Abated Material	Surface	N/A	A	Y					SF	V0006	[None]	50-75%	[Abated]
Piping	Gas Pipe Line	Fibreglass	Straight	Canvas	C	Y									
Piping	Gas Pipe Line	Parging over Fibreglass	Fitting	Canvas	C	Y		6			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Glycol	Fibreglass	Straight	Canvas	C	Y									
Piping	Glycol	Parging over Fibreglass	Fitting	Canvas	C	Y		20			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		72			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		97			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Rain Water Leader	Parging over Fibreglass	Surface	Canvas	C	Y		2			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Beam, Deck	Metal	No Information	NI											
Wall		Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Mortar on hollow core block walls is presumed asbestos containing.
1 - Boiler 4
2 - Boiler 4
3 - Boiler 4
4 - Boiler 4
5 - Beige
6 - Beige
7 - Boiler 4

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**

Location: #13 : Boiler Building - Storage/Main Entryway, Phase: A **Floor: Main** **Room #:** **Area (sqft): 800**

Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Domestic Hot Water	Fibreglass	Straight	Canvas	B	Y									
Piping	Domestic Hot Water	Not Insulated	Fitting	Canvas	B	Y					EA	V0000	Non-Asbestos		None
Piping	Heating Water Return	Fibreglass	Straight	Canvas	B	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	B	Y		14			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	B	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	B	Y		17			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**

Location: #14 : Boiler Building - Washroom, Phase: A **Floor: Main** **Room #:** **Area (sqft): 40**

Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	A	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	A	Y		2			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	A	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	A	Y		5			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**

Location: #15 : Boiler Building - Storage/Electrical Room, Phase: A **Floor: Main** **Room #:** **Area (sqft): 80**

Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Heating Water Tank	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Domestic Hot Water	Fibreglass	Straight	Canvas	C	Y									
Piping	Domestic Hot Water	Parging over Fibreglass	Fitting	Canvas	C	Y		2			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		5			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		6			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**

Location: #16 : Boiler Building - Boiler Mezzanine, Phase: A **Floor: Main** **Room #:** **Area (sqft): 1200**

Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Duct	Exhaust	Fibreglass	Surface	Canvas	C	Y									
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Boiler	Not Insulated	No Information	NI											
Mechanical Equipment	Breeching	Unidentified Material	No Information	Metal				100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Other		Not Insulated	No Information	NI											
Other		Not Insulated	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		9			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		23			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Rain Water Leader	Fibreglass	Straight	Canvas	C	Y									
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		5			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Beam, Deck	Metal	No Information	NI											
Wall		Concrete (poured)	No Information	NI											
Wall		Masonry	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

New Boiler Mortar on hollow core block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**

Location: #17 : Boiler Building - Hallway/Fan Room, Phase: A **Floor: Main** **Room #:** **Area (sqft): 150**

Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Return Air	Fibreglass	Surface	Canvas	C	Y									
Duct	Supply Air	Fibreglass	Surface	Floor Levelling Compound	C	Y									
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Fibreglass	Surface	Floor Levelling Compound	C	Y									
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		1			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		1			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Beam, Deck	Metal	No Information	NI											
Wall		Masonry	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**

Location: #18 : Boiler Building - Boiler Control Room, Phase: A **Floor: Main** **Room #:** **Area (sqft): 300**

Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling tiles (glue-on)	Surface	N/A	C	Y		190	19	6	SF	S0009	None Detected	N.D.	None
Ceiling		Drywall (no compound)			C	Y									
Duct	N/A	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		300			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Not Found	NI	No Information	NI											
Wall		Drywall and joint compound	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**
Location: #19 : Digesters - Old Gas Room, Phase: A **Floor: Main** **Room #:** **Area (sqft): 4000**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Fresh Air Intake	Fibreglass w/Parging	Surface	Canvas	C	Y		280			SF	V0001	Chrysotile	50-75%	Confirmed Asbestos(F)
Duct	Fresh Air Intake	Fibreglass w/Parging	Surface	Canvas	C	Y		200			SF	V0001	Chrysotile	50-75%	Confirmed Asbestos(F)
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Gas Pipe Line	Fibreglass	Straight	Canvas	C	Y									
Piping	Gas Pipe Line	Parging over Fibreglass	Fitting	Canvas	C	Y		57			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		60			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		39			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		53			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Rain Water Leader	Sweat Wrap pipe insulation	Straight	Canvas	C	Y		2			LF	V0002	None Detected	N.D.	None
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**

Location: #20 : Digesters - South Fan Room Off Old Gas Room, Phase: A **Floor: Main** **Room #:** **Area (sqft): 120**

Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Exhaust	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**

Location: #21 : Digesters - Gallery 6 Entrance, Phase: A **Floor: Main** **Room #:** **Area (sqft): 200**

Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		9			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		9			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Mortar on hollow core block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**
Location: #22 : Digesters - Hallway, Phase: A **Floor: Main** **Room #:** **Area (sqft): 150**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Fibreglass	Straight	Canvas	C	Y						I000N	Chrysotile	50-75%	
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		2			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Mortar on hollow core block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**
Location: #23 : Digesters - Washroom, Phase: A **Floor: Main** **Room #:** **Area (sqft): 25**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Mortar on hollow core block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**
Location: #24 : Digesters - Control Room, Phase: A **Floor: Main** **Room #:** **Area (sqft): 540**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		540			SF	S0003	None Detected	N.D.	None
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**
Location: #25 : Digesters - Hallway, Phase: A **Floor: Main** **Room #:** **Area (sqft): 50**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		1			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		1			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Mortar on hollow core block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**
Location: #26 : Digesters - Gallery 6, Phase: A **Floor: Main** **Room #:** **Area (sqft): 3600**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		13			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		11			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Rain Water Leader	Fibreglass	Straight	Canvas	C	Y									
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		6			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Mortar on hollow core block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**
Location: #27 : Digesters - Fan Room, Phase: A **Floor: Main** **Room #:** **Area (sqft): 200**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Mortar on hollow core block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**
Location: #28 : Digesters - Stairwell, Phase: A **Floor: Main** **Room #:** **Area (sqft): 350**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		3			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		3			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Rain Water Leader	Fibreglass	Straight	Canvas	D	Y									
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	D	Y		1			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Mortar on hollow core block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**
Location: #29 : Digesters - Gallery 7, Phase: A **Floor: Main** **Room #:** **Area (sqft): 2000**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Exchanger	Not Insulated	No Information	NI											
Mechanical Equipment	Exchanger	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		27			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		42			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Mortar on hollow core block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**

Location: #30 : Digesters - Stairwell Northwest corner, Phase: A **Floor: Main** **Room #:** **Area (sqft): 350**

Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		11			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		11			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**
Location: #31 : Digesters - Fan Room, Phase: A **Floor: Main** **Room #:** **Area (sqft): 350**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		3			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**
Location: #32 : Digesters - Stairwell South, Phase: A **Floor: Main** **Room #:** **Area (sqft): 350**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		3			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		3			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**

Location: #33 : Boiler Building - Boiler Storage, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 80**

Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	N/A	NI	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Floor	Debris	Parging Cement								5	SF	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Mechanical Equipment	Fan Unit	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		2	1		EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Quarry tile	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Damaged pipe insulation and debris - June 2021 Mortar on hollow core block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**

Location: #34 : Burner Building - Burner Main Floor, Phase: A **Floor: Main-Burner** **Room #:** **Area (sqft): 400**

Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Fresh Air Intake	Fibreglass w/Parging	Surface	Canvas	C	Y		9			SF	S0004	None Detected	N.D.	None
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		4			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		4			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Masonry	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Mortar	Surface	Quarry tile	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Mortar on hollow core block walls and quarry tile is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**

Location: #35 : Burner Building - Burner Basement Room, Phase: A **Floor: Basement-Tunnel** **Room #:** **Area (sqft): 400**

Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Fresh Air Intake	Fibreglass w/Parging	Surface	Canvas	C	Y		6			SF	V0004	None Detected	N.D.	None
Duct	Supply Air	Fibreglass	Surface	Canvas	C	Y									
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Fan Unit	Not Insulated	No Information	NI											
Mechanical Equipment	Fan Unit	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Gas Pipe Line	Fibreglass	Straight	Canvas	C	Y									
Piping	Gas Pipe Line	Parging over Fibreglass	Fitting	Canvas	C	Y		5			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		9			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		10			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Mortar on hollow core block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**
Location: #36 : Digesters - Gallery 7, Phase: A **Floor: Basement-Tunnel** **Room #:** **Area (sqft): 2000**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other		Parging Cement	Surface	N/A	B	Y		3			SF	S0005	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Gas Pipe Line	Fibreglass	Straight	Canvas	C	Y									
Piping	Gas Pipe Line	Parging over Fibreglass	Fitting	Canvas	C	Y		3			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		30			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		33			EA	S0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Openings in wall where pipes pass through.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**

Location: #37 : Digesters - Gallery 1 East, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 1000**

Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		5			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		5			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**

Location: #38 : Digesters - Gallery 1 West, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 2000**

Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		4			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		4			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**
Location: #39 : Digesters - Gallery 2, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 2600**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		10			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		10			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**
Location: #40 : Digesters - Gallery 3, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 2600**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		23			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		23			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Mortar on hollow core block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**
Location: #41 : Digesters - Gallery 4, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 2800**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Fibreglass w/Parging	Surface	Canvas	C	Y		200			SF	V0001	Chrysotile	50-75%	Confirmed Asbestos(F)
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Gas Pipe Line	Fibreglass	Straight	Canvas	C	Y									
Piping	Gas Pipe Line	Parging over Fibreglass	Fitting	Canvas	C	Y		1			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		29			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		23			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**
Location: #42 : Digesters - Gallery 6, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 2800**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	D	Y									
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	D	Y									
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											
Wall	All	Mortar	ALL		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Mortar on hollow core block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**
Location: #43 : Digesters - Storage, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 200**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Mortar on hollow core block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**

Location: #44 : Digesters - Electrical Room, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 1500**

Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Mortar on hollow core block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**
Location: #45 : Digesters - Fan Room, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 250**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Mortar on hollow core block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**
Location: #46 : Digesters - Stairwell, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 300**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Not Found	NI	No Information	NI											
Wall		Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Mortar on hollow core block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**
Location: #47 : Digesters - Gallery 7, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 5000**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		12			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		12			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Mortar on hollow core block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**
Location: #48 : Digesters - Fan Room, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 300**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Mortar on hollow core block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**
Location: #49 : Digesters - Stairwell, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 250**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Not Found	NI	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**
Location: #50 : Digesters - Stairwell, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 250**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Not Found	NI	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**

Location: #51 : Boiler Building - Room 31, Phase: A **Floor: Second** **Room #:** **Area (sqft): 400**

Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Return Air	Fibreglass	Surface	Canvas	B	Y									
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping		NI	No Information	NI											
Structure	Beam, Deck	Metal	No Information	NI											
Wall		Masonry	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Mortar on hollow core block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**

Location: #52 : Boiler Building - Upstairs Main Area, Phase: A **Floor: Second** **Room #:** **Area (sqft): 400**

Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Drain	Not Insulated			C	Y									
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		3			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		3			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Rain Water Leader	Parging Cement	Fitting	Canvas	C	Y		3			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)			C	Y									
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Mortar on hollow core block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**
Location: #53 : Digesters - Oil Storage Room, Phase: A **Floor: Second** **Room #:** **Area (sqft): 600**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Fibreglass	Straight	Canvas	D	Y									
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	D	Y		1			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**
Location: #54 : New Gas Room, Phase: A **Floor: Second** **Room #:** **Area (sqft): 2250**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		6			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		6			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Rain Water Leader	Fibreglass	Straight	Canvas	C	Y									
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		4			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Masonry	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**
Location: #55 : Digesters - Penthouse 5, Phase: A **Floor: Second** **Room #:** **Area (sqft): 800**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Fibreglass	Straight	Canvas	C	Y									
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		2			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Masonry	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Mortar on hollow core block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**
Location: #56 : Digesters - Penthouse 3, Phase: A **Floor: Second** **Room #:** **Area (sqft): 400**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Masonry	No Information	NI											
Wall	All	Mortar	Surface		A	Y					%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Mortar on hollow core block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**
Location: #57 : Digesters - Penthouse 1, Phase: A **Floor: Second** **Room #:** **Area (sqft): 400**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Masonry	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Mortar on hollow core block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**
Location: #58 : Digesters - Gallery 5, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 2800**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Mechanical Equipment	Exchanger	Not Insulated	No Information	NI											
Mechanical Equipment	Exchanger	Not Insulated	No Information	NI											
Mechanical Equipment	Exchanger	Not Insulated	No Information	NI											
Mechanical Equipment	Exchanger	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		59			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		56			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		3			EA	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**
Location: #59 : Exterior by Boiler Room, Phase: A **Floor: Main** **Room #:** **Area (sqft): 0**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Wall	All	Plaster	Exterior	N/A	A	Y		700			SF	S0010	None Detected	N.D.	None
Wall	All	Mortar	Surface	Quarry tile	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Roof needs to be tested prior to any renovation or demolition activities. Grout (masonry mortar) on brick walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**
Location: #60 : Exterior near Tanks 1-12, Phase: A **Floor: Main** **Room #: Exterior** **Area (sqft): 0**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Wall		Concrete (poured)	Surface	N/A	A	Y		100			%	V0000	Non-Asbestos		None
Wall		Clay Tile (block)	Surface	N/A	A	Y		100			%	V0000	Non-Asbestos		None
Wall		Abated Material	Base	Textile	A	Y					SF	S0011	[None]	1-5%	[Abated]
Wall		Mortar	Surface	Quarry tile	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Roof needs to be tested prior to any renovation or demolition activities. Mortar on brick walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**
Location: #61 : Exterior near Tanks 13-14, Phase: A **Floor: Main** **Room #: Exterior** **Area (sqft): 0**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Wall		Concrete (poured)	Surface	N/A	A	Y		100			%	V0000	Non-Asbestos		None
Wall		Clay Tile (block)	Surface	N/A	A	Y		100			%	V0000	Non-Asbestos		None
Wall		Abated Material	Base	N/A	A	Y					SF	S0012	[None]	10-25%	[Abated]
Wall		Mortar	Surface	Quarry tile	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Roof needs to be tested prior to any renovation or demolition activities. Mortar on brick walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 3 : Digesters**
Location: #62 : Exterior Back Area, Phase: A **Floor: Main** **Room #: Exterior** **Area (sqft): 0**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Wall		Clay Tile (block)	Surface	N/A	A	Y		100			%	V0000	Non-Asbestos		None
Wall		Plaster	Surface	N/A	A	Y		375			SF	S0013	Chrysotile	1-5%	Confirmed Asbestos(PF)
Wall		Mortar	Surface	Quarry tile	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Roof needs to be tested prior to any renovation or demolition activities. Mortar on hollow core block walls presumed asbestos containing.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

FINAL

Asbestos Reassessment

G.C. MacLean Pumping Station and Reservoir
875 Lagimodiere Boulevard, Winnipeg, Manitoba

Prepared for:

City of Winnipeg Water and Waste Department
110-1199 Pacific Avenue
Winnipeg, Manitoba R3E 3S8

October 14, 2021

Pinchin File: 289439

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EXECUTIVE SUMMARY

City of Winnipeg Water and Waste Department (Client) retained Pinchin Ltd. (Pinchin) to conduct an asbestos building materials reassessment of G.C. MacLean Pumping Station and Reservoir located at 875 Lagimodiere Boulevard, Winnipeg, Manitoba. The reassessment was performed on June 29, 2021.

The objective of the reassessment was to evaluate the condition and quantity of previously reported asbestos-containing materials (ACM), and develop corrective action plans as required for the purposes of long-term management. The results of this assessment are not intended for construction, renovation, demolition or project tendering purposes.

The reassessment was based on information gathered from previous comprehensive assessment report completed by Pinchin. The original assessment report for the G.C. MacLean Pumping Station and Reservoir was dated March 6, 2007. The results of the original report and subsequent survey update reports were reviewed prior to completing the reassessment.

The assessed area was limited to the parts of the building where the original report had indicated asbestos-containing materials (ACMs) were present. Rooms where no ACMs were reported were not inspected.

HMIS data has been updated online. In addition, location photos depicting ACMs have been uploaded to HMIS.

SUMMARY OF FINDINGS

Asbestos-containing materials (ACM) are present as follows:

- Asbestos-containing parging cement is present as insulation on pipe system fittings throughout the building. Parging cement is friable and was jacketed with canvas. Parging cement was generally in GOOD condition except for 3 fittings in FAIR condition within Location No.12.
- Asbestos-containing parging cement is present as duct insulation within Location No.’s 6, 7. 11, 16 and 19. The parging cement is a friable material. The parging cement was jacketed with canvas and is in GOOD condition except for 1 SF of damage rated in FAIR condition within Location No.6.
- Asbestos-containing preformed magnesia block is present as mechanical insulation within exhaust ducting within Location No.’s 18 and 19. Magnesia block is a friable material. The magnesia block is jacketed with metal and is in GOOD condition.

- Asbestos-containing transite boards are present as ceiling finish in the Main Floor Vestibule, Location No.10. Transite is cement is a non-friable material which is in GOOD condition.
- Loose fill vermiculite was not observed in the assessed areas however; demolition of masonry block walls was not performed and vermiculite may be present within these cavities.
- Asbestos-containing caulking is present on the exterior wall finish, Location No.22. Caulking is non-friable and is in GOOD condition except for 4 SF of debris identified on the back North side of the building.
- Mortar present on masonry walls throughout the facility is presumed to contain asbestos. Mortar is potentially friable and is in GOOD condition; and
- Setting compounds present on ceramic floor tiles within Location No.'s 1, 2, 3, 6 and 19 are presumed to contain asbestos. Setting compounds are potentially friable and are in GOOD condition

SUMMARY OF RECOMMENDATIONS

The following is a summary of significant recommendations; refer to the body of the report for detailed recommendations.

1. The following items require immediate remedial action:
    a. Repair following Moderate Risk procedures damaged/exposed parging cement rated in FAIR condition on 3 rainwater leader fittings within Upper Walkway, Location No. 12.
    b. Repair following Moderate Risk procedures 1 SF of damaged/exposed parging cement on Fresh Air Intake duct within the Chlorine Analyzer Room, Location No. 6.
    c. Remove following Low Risk procedures 4 SF of caulking debris present on the exterior back North side of building, Location No. 22.
2. Perform a re-assessment of asbestos materials on an annual basis.
3. Prior to renovations or demolition, perform a pre-construction assessment to identify any hazardous materials that may be disturbed by the work.
4. Follow appropriate safe work procedures when handling or disturbing asbestos.

This Executive Summary is subject to the same standard limitations as contained in the report and must be read in conjunction with the entire report.

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APPENDICES

1.0 INTRODUCTION AND SCOPE

City of Winnipeg Water and Waste Department (Client) retained Pinchin Ltd. (Pinchin) to conduct an asbestos building materials reassessment of GC MacLean Pumping Station and Reservoir located at 875 Lagimodiere Boulevard, Winnipeg, Manitoba.

Pinchin performed the reassessment on June 29, 2021. The surveyor was accompanied by City of Winnipeg Water and Waste Representatives during the reassessment. The assessed area was occupied at the time of the assessment.

The objectives of the reassessment were to document the locations, quantities and conditions of previously identified asbestos containing building materials and develop corrective action plans as required. This reassessment is only to be used for the purposes of long-term management and routine maintenance. The results of this reassessment are not to be used for construction, renovation, demolition or project tendering purposes.

1.1 Scope of Assessment

The objective of the reassessment was to evaluate the condition and quantity of previously reported asbestos-containing materials (ACM), and develop corrective action plans as required.

Additional objectives included the following:

- Documentation of any asbestos abatement that was performed since the last reassessment.

Please refer to Appendix I for a detailed description of the methodology used for this assessment.

2.0 METHODOLOGY

Pinchin conducted an inspection of previously identified asbestos-containing materials (ACM) to evaluate the current condition of all accessible identified in the most recent assessment. The surveyor made reference to any existing assessment or abatement reports (as provided by the Client).

As per the original scope of work, concealed locations such as ceiling spaces above solid ceilings, shafts and chases were accessed via existing access panels. Our investigation did not include demolition of drywall or plaster walls to view concealed conditions. Structural items or exterior building finishes were not removed to determine the presence of concealed materials.

For further details on the methodology including test methods, refer to Appendix I.

3.0 BACKGROUND INFORMATION

3.1 Existing Reports and Summary of Asbestos Abatement

3.1.1 Review of Previous Reports

The reassessment was based on information gathered from previous comprehensive assessment report completed by Pinchin. The original assessment report for the G.C. MacLean Pumping Station and Reservoir was dated March 6, 2007. The results of the original report and subsequent survey update reports were reviewed prior to completing the reassessment

3.1.2 Summary of Asbestos Abatement since the Previous Assessment

Based on a review of the above noted abatement reports, and observations made during the reassessment, asbestos abatement has not been conducted since the last assessment.

3.2 Inaccessible Locations

The following rooms or areas, within the assessed area, were not accessible to the surveyor and are therefore not included in the report:

Area or Room	Reason	Previously identified ACM not inspected, and condition
Valve Room, Location No.21	Unauthorized access	Parging cement, 140 Fittings

4.0 FINDINGS

The following section summarizes the findings of the reassessment and provides a general description of the asbestos-containing materials (ACM) identified and their locations.

For details on approximate quantities, condition, friability and locations of asbestos materials; refer to the Asbestos Material Summary Report and HMIS Data Report in Appendix III and IV.

4.1 Pipe Insulation

Asbestos-containing parging cement present on pipe fittings of pipe systems in the Chlorine Scale Room (Location No. 7), Chlorine Tonner Room (Location No. 9), Ammonia Room (Location No. 11), Upper Walkways (Location No. 12), Stairwell (Location No. 14), Pump Floor (Location No. 19), Maintenance Room (Location No. 20), and Valve Room (Location No. 21) have been generally maintained in GOOD condition with the exception of minor amounts rated in FAIR condition.

The following damage was noted during the 2021 update:

Location	Quantity and Condition of Damage
Upper Walkways Location No. 12	Damaged/exposed parging cement on 3 fittings of the Rainwater Leader System rated in FAIR condition

Damaged/exposed parging cement on 3 rainwater leader fittings within Location No.12.

4.2 Duct Insulation and Mastic

Asbestos-containing parging cement is present as duct insulation within the Chlorine Analyser Room (Location No. 6), Chlorine Scale Room (Location No. 7), Ammonia Room (Location No. 11), Fan Room (Location No. 16), and Pump Floor (Location No. 19). Parging cement is a friable material which is jacketed with canvas and is in GOOD condition except for 1 SF of damage rated in FAIR condition within Location No.6.

Damaged/exposed parging cement on 1 SF of ducting within Location No.6.

4.3 Mechanical Equipment Insulation

Asbestos-containing preformed magnesia block insulation is present on the generator exhaust in the Mezzanine Generator Room (Location No. 18), and Pump Floor (Location No.19). Magnesia block is a friable material which is jacketed with metal and is in GOOD condition

4.4 Vermiculite

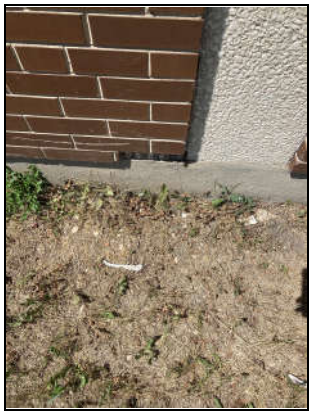
Loose fill vermiculite was not observed within the assessed areas; however, demolition of masonry block walls was not performed and vermiculite may be present within these cavities. Vermiculite debris was not observed.

4.5 Asbestos Cement Products (Transite)

Asbestos-containing transite boards present as a ceiling finish in the Main Floor Vestibule (Location No. 10) are non-friable and are in GOOD condition.

4.6 Sealants, Caulking, and Putty

Asbestos-containing beige and grey caulking present on the exterior wall finish (Location No. 22) is non-friable material which is generally in GOOD condition with the exception of 4 SF of debris present on the back North side of the building.



4 SF of asbestos-containing calking debris on exterior of building.

4.7 Roofing Products

Built-up roofing materials have not been sampled and are presumed to contain asbestos. Destructive testing will be required prior to any renovation or demolition activities.

4.8 Other Building Materials

Mortar present on masonry walls throughout the facility is presumed to contain asbestos. Mortar is potentially friable and is in GOOD condition.

Setting compounds present on ceramic floor tiles within Location No.'s 1, 2, 3, 6 and 19 are presumed to contain asbestos. Setting compounds are potentially friable and are in GOOD condition

4.9 Excluded Asbestos Materials

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

- Roofing felts and tar, mastics;
- Floor levelling compound;
- Elevator and lift brakes;
- Electrical components;
- Moulded plastic components (laboratory bench tops);
- Refractory materials and insulations in boilers, incinerators and stacks;
- Insulation under metal clad boilers and vessels;
- Mechanical packing, ropes and gaskets;
- Adhesives and duct mastics;
- Caulking and putties;
- Fibre-reinforced paints and coatings;
- Paper products;
- Soffit and fascia boards;
- Fire resistant doors;
- Metal clad finishes (Galbestos);
- Stucco, plaster or other cementitious parge coatings;
- Vibration dampers on HVAC equipment;
- Terrazzo;
- Ropes and gaskets in cast-iron bell and spigot joints; and
- Sealants on pipe threads.

5.0 RECOMMENDATIONS

5.1 General

Perform a detailed intrusive assessment prior to building renovation or demolition operations. The assessment should include; destructive testing (e.g. coring and/or removal of building finishes and components), sampling of other hazardous materials (lead, mercury, PCBs, mould, etc.), and materials not tested in this study (e.g. roofing materials, caulking, mastics).

5.2 Remedial Work

The following remedial work is recommended.

Material and Quantity	Location	Recommended Procedure
Parging cement, 1 SF	Supply Ducting, Chlorine Analyzer Room, Location No.6	Repair following Moderate Risk procedures
Parging pipe insulation, 3 fittings	Rainwater Leader System, Upper Walkways, Location No. 12.	Repair following Moderate Risk procedures
Caulking, 4 SF	Exterior of Building, back North side Location No.22	Remove following Low Risk procedures

5.3 On-going Management and Maintenance

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

Perform a re-assessment of asbestos materials on an annual basis.

Monitor the condition of asbestos by conducting a re-assessment on a regular basis.

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

Update the asbestos inventory report for the building upon completion of any abatement of ACM.

6.0 TERMS AND LIMITATIONS

This work was performed subject to the Terms and Limitations presented or referenced in the proposal for this project.

Information provided by Pinchin is intended for Client use only. Pinchin will not provide results or information to any party unless disclosure by Pinchin is required by law. Any use by a third party of reports or documents authored by Pinchin or any reliance by a third party on or decisions made by a third party based on the findings described in said documents, is the sole responsibility of such third parties. Pinchin accepts no responsibility for damages suffered by any third party as a result of decisions made or actions conducted. No other warranties are implied or expressed.

7.0 REFERENCES

The following legislation and documents were referenced in completing the assessment and this report:

1. Workplace Safety and Health Act W210.
2. Workplace Safety and Health Hazard Regulation (Manitoba Regulation 217/2006), under the Workplace Safety and Health Act.
3. Manitoba Regulation MR 474/88, Manitoba PCB Regulation made under The Dangerous Goods Act.
4. Guide for Asbestos Management – Safe Work Manitoba.
5. Guideline Managing Demolition Debris Containing Hazardous Materials – Environmental Enforcement and Compliance Branch – Manitoba Conservation and Climate
6. Canada Occupational Health and Safety Regulation, SOR/86-304.
7. Consolidated Transportation of Dangerous Goods Regulations, including Amendment SOR/2019-101, Transportation of Dangerous Goods Act.

APPENDIX I

Methodology

1.0 METHODOLOGY

Pinchin conducts an inspection of previously identified asbestos-containing materials (ACM) to evaluate the current condition of all accessible identified in the most recent assessment. The surveyor makes reference to any existing assessment or abatement reports (as provided by the Client).

1.1 Limitations on Scope

The reassessment excludes the following:

- Articles belonging to the owner, tenant or occupant (e.g. stored items, furniture, appliances, etc.);
- Underground materials or equipment (e.g. vessels, drums, underground storage tanks, pipes, etc.);
- Building envelope, structural components, inaccessible or concealed materials or other items where sampling may cause consequential damage to the property;
- Energized systems (e.g. internal boiler components, elevators, mechanical or electrical components);
- Controlled products (e.g. stored chemicals, operational or process-related substances); and
- Materials not typically associated with construction (e.g. settled dust, spills, residual contamination from prior spills, etc.).

As per the original scope of work, concealed locations such as ceiling spaces above solid ceilings, shafts and chases are accessed via existing access panels. Our investigation does not include demolition of drywall or plaster walls to view concealed conditions. Structural items or exterior building finishes are not removed to determine the presence of concealed materials.

1.2 Methodology

Existing sampling data is reviewed and relied upon. If sampling is conducted, samples are collected at a rate that is in compliance with the requirements of local regulations and guidelines. The sampling strategy is also based on known ban dates and phase out dates of the use of asbestos; sampling of certain building materials is not conducted after specific construction dates. In addition, to be conservative, several years past these dates are added to account for some uncertainty in the exact start / finish date of construction and associated usage of ACM.

Materials listed as exclusions in the previous reports remain as exclusions. Sampling, assessment or verification of excluded materials was not conducted.

If present, the following materials are presumed to be asbestos-containing and are best sampled immediately prior to commencing renovation/disturbance:

- Roofing felts and tar, mastics;
- Floor levelling compound;
- Ceramic tile setting compound;
- Elevator and lift brakes;
- Electrical components or wiring within control centers, breakers, motors or lights, insulation on wiring;
- Moulded plastic components (laboratory bench tops);
- Refractory materials and insulations in boilers, incinerators and stacks;
- Insulation under metal clad boilers and vessels;
- Mechanical packing, ropes and gaskets;
- Vermiculite;
- Adhesives and duct mastics;
- Caulking and putties;
- Fibre-reinforced paints and coatings;
- Paper products;
- Soffit and fascia boards;
- Fire resistant doors;
- Metal clad finishes;
- Exterior cladding;
- Stucco, plaster or other cementitious parge coatings; and
- Vibration dampers on HVAC equipment.

2.0 ANALYSIS AND IDENTIFICATION OF ASBESTOS MATERIALS

Pinchin relies on the analytical results of prior surveys. Asbestos bulk samples (if required) are analyzed at an independent NVLAP accredited laboratory. Preliminary identification of asbestos fibres is made using polarized light microscopy, with confirmation of the presence and type of asbestos made by dispersion staining optical microscopy. The analysis is performed in accordance with Test Method EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials, June 1993. All independent laboratories used by Pinchin, including our laboratory, are certified under the National Voluntary Laboratory Accreditation Program (NVLAP) to perform asbestos analysis of bulk samples.

Analytical results are compared to the following criteria:

Jurisdiction	Friable	Non-Friable
Manitoba	0.1%[1]	1%
Federal	1%	1%

The asbestos analysis is completed using a stop positive approach. Only one result meeting the above regulated criteria is required to determine that a material is asbestos-containing, but all samples must be analyzed to conclusively determine that a material is non-asbestos. The laboratory stops analyzing samples from a homogeneous material once a result equal to or greater than the regulated criteria is detected in any of the samples of that material. All samples of a homogeneous material are analyzed if no asbestos is detected. In some cases, all samples are analyzed in the sample set regardless of result.

Where building materials are described in the report as “non-asbestos” or “does not contain asbestos”, this means that either no asbestos was detected by the analytical method utilized in any of the multiple samples or, if detected, it is below the lower limit of an asbestos-containing material in the applicable regulation.

Asbestos materials are evaluated in order to make recommendations regarding remedial work. The priority for remedial action is based on several factors:

- Friability (friable or non-friable);
- Condition (good, fair, poor, debris);
- Accessibility (ranking from accessible to all building users to inaccessible);
- Visibility (whether the material is obscured by other building components); and
- Efficiency of the work (for example, if damaged ACM is being removed in an area, it may be most practical to remove all ACM in the area even if it is in good condition).

For a complete description of the Evaluation Criteria and Basis of Recommendations, refer to Annex A.

Template: Methodology for Asbestos Re-Assessment, HAZ, January 10, 2020

METHODOLOGY ANNEX A EVALUATION CRITERIA

1.0 EVALUATION CRITERIA AND BASIS OF RECOMMENDATIONS

The detailed asbestos assessment provides information regarding the location, condition, accessibility and friability of the asbestos-containing materials (ACM). In order to make recommendations for compliance with current regulations, Pinchin developed the following criteria.

2.0 EVALUATION OF CONDITION

2.1 Friable Sprayed or Trowelled Fireproofing, Thermal Insulation and Texture Finishes (Surfacing Materials)

To evaluate the condition of ACM sprayed or trowelled on fireproofing, sprayed or trowelled thermal insulation (non-mechanical), or texture, decorative or acoustic finishes, the following criteria are applied:

Good	Surface of material shows no significant signs of damage, deterioration or delamination. Good condition includes unencapsulated or unpainted fireproofing or texture finishes, where no or limited delamination or damage is observed, or encapsulated fireproofing or texture finishes where the encapsulant or paint has been applied after the damage or fallout occurred.
Poor	A sprayed material that shows signs of significant damage or is significantly delaminating or deteriorating. This may be limited to surface delamination or some portion of the substrate may be exposed.

In Locations where damage exists in isolated areas, both good and poor condition may be applicable. The extent of each condition will be recorded. Fair condition is not utilized in the evaluation of ACM sprayed or trowelled fireproofing, sprayed or trowelled thermal insulation (non-mechanical), or texture, decorative or acoustic finishes.

The evaluation of the above products above ceilings may be limited by the number of observations and by building components such as ducts or full height walls that obstruct the above ceiling observations.

2.2 Friable Mechanical or Thermal System Insulation (TSI)

To evaluate the condition of mechanical insulation on vessels, boilers, breeching, ducts, pipes, fan units, equipment etc. the following criteria are applied:

Good	Insulation is completely covered in jacketing and exhibits no evidence of damage or deterioration. No insulation is exposed. Includes conditions where the jacketing has minor damage (i.e. scuffs or stains), but the jacketing is not penetrated.
Fair	Minor penetrating damage to jacketed insulation (cuts, tears, nicks, deterioration or delamination) or undamaged insulation that has never been jacketed. Insulation is exposed but not showing surface disintegration. The extent of missing insulation ranges from minor to none. Damage can be repaired.
Poor	Original insulation jacket is missing, damaged, deteriorated or delaminated. Insulation is exposed and significant areas have been dislodged. Damage cannot be readily repaired. Includes components where insulation may have been removed incompletely.

The evaluation of mechanical insulation may be limited by the number of observations made and building components such as ducts or full height walls that obstruct observations. It is often not possible to observe each foot of mechanical insulation from all angles.

2.3 Potentially Friable Materials and Miscellaneous Friable Materials

Potentially friable ACM are products that are basically non-friable while in place but have the potential to generate friable dust upon removal or if significantly disturbed without appropriate procedures. These products may become friable if damaged. Potentially friable materials include materials such as acoustic ceiling tiles and plaster. To evaluate the condition of potentially friable materials, the following criteria are applied:

Good	No significant damage or deterioration. Still serving its intended use as a building material or finish.
Fair	Showing signs of some cracking or breakage, but is not deteriorating (e.g. cracked plaster, broken but in place ceiling tile, missing tile or section of plaster etc.). The condition is such that it is still serving its intended use as a building material or finish but may require repair for mainly cosmetic purposes.
Poor	Significant deterioration or breaking apart of the material. Material has deteriorated to the point it is not serving its intended use as building material or finish. Material has deteriorated to a point it has become friable. Normally potentially friable ACM in Poor condition is not repairable and requires at least localized removal and replacement.

2.4 Non-Friable Materials

Non-friable ACM cover a wide range of products with a wide variation in their tendency to release dust or asbestos fibres to the air. Many of these materials, (particularly where the matrix is an unweathered bitumen, asphalt or tar material) do not release fibres except in very unusual circumstances or during significant disturbance (e.g. use of abrasive power tools). Others with a cementitious matrix (asbestos-cement products) can more readily release dust due to abrasion, demolition, weathering, etc. The potential for asbestos release from non-friable ACM is always lower than from friable ACM. To evaluate the condition of non-friable Materials, the following criteria are applied:

Good	No significant damage or deterioration. Still serving its intended use as a building material or finish.
Fair	Showing signs of some cracking or breakage but is not deteriorating (e.g. cracked vinyl floor tile, missing piece of tile or transite, etc.). The condition is such that it is still serving its intended use as a building material or finish but may require repair for mainly cosmetic purposes.
Poor	Significant deterioration or breaking apart of the material to the point at which it cannot be repaired, and it will require at least local removal. Material has deteriorated to the point it is not serving its intended use as building material or finish. Material may have deteriorated to a point where traffic or disturbance may cause it to become friable.

2.5 Evaluation of ACM Debris

The identification of the exact location or presence of debris on the top of ceiling tiles is limited by the number of observations made and the presence of building components such as ducts or full height walls that obstruct observations.

The presence of fallen or dislodged ACM is noted separately from the ACM source and is referred to as Debris. Debris may be friable if from a friable ACM source or a badly deteriorated non-friable ACM source. Debris may also be non-friable (such as fallen pieces of transite sheet or mastic fittings, or broken, dislodged floor tiles).

Debris	Debris may be friable or non-friable but is always identified as debris.

2.6 Evaluation of Presumed Asbestos-Containing Material (PACM)

Presumed asbestos-containing materials (PACM), are building materials that may contain asbestos but were not sampled or analyzed due to inaccessibility or the need to perform destructive testing to obtain a reasonable sample set. Evaluation of these materials is based on the assumption that these PACM are asbestos-containing.

A list of PACM is provided in the report and they are generally not included in the detailed room by room reports. Typically, they are excluded because they are inaccessible or present in very small quantities. If PACM are evaluated, Pinchin uses the criteria that correspond with the type (and friability) of the material listed above.

3.0 EVALUATION OF ACCESSIBILITY

The accessibility of building materials known or suspected of being ACM is rated according to the following criteria:

Access (A)	Common areas of the building within reach of all building users (approximately 8 '-9' from floor or standard ceiling height). Includes other areas where occupant activities may result in disturbance of material that is not normally within reach from floor level, but may be disturbed by common activities (e.g. gymnasiums, workshops, warehouses)
Access (B)	Areas of the building accessed primarily by Maintenance/Caretaking/Janitorial Staff and within reach without use of a ladder. Includes areas within reach in Boiler Rooms, Electrical Rooms, Janitors Closets, Elevator Rooms, Mechanical Rooms, etc. Includes materials within reach from fixed ladders or catwalks, mezzanines, and accessible pipe chases.
Access (C) and Visible	Areas of the building above 8' - 9' where use of a ladder or scaffold is required to reach the ACM. Only includes ACM that are visible to view without the removal or opening of other building components such as ceiling tiles or service access panels. Visible column on HMIS sheets will say YES.
Access (C) and not Visible	Areas of the building above 8' - 9' where use of a ladder or scaffold is required to reach the ACM. Includes ACM that are not visible to view and require the removal of a building component to see, such as ceilings tiles or access panels to view and access. Includes rarely entered crawl spaces, attic spaces, etc. Observations will be limited to the extent visible from the access points. Visible column on HMIS sheets will say NO.
Access (D)	Areas of the building behind inaccessible solid ceiling systems, walls or equipment etc. where demolition of the ceiling, wall or equipment etc. is required to reach the ACM. Material inaccessible due to height or location or is only accessed under unusual situations. Evaluation of condition and extent of ACM is limited or impossible, depending on the surveyor's ability to visually examine materials in Access D.

4.0 ACTION MATRIX AND DEFINITIONS

Pinchin's evaluation of the viability of a specific asbestos control option is based on the consideration of the friability, condition, accessibility and visibility of a material. The logic used is that damaged ACM located in an area frequently accessed by all building occupants is of a higher priority than damaged ACM located in an infrequently accessed service area. The action matrix considers the potential for fibre release (primarily from friable ACM) and the possible concerns from regulatory bodies and many building occupants to all damaged ACM (including non-friable).

In any building with asbestos, many current regulations require an Asbestos Management Program be implemented. Depending on the condition and the accessibility, more active measures such as repair or removal may be recommended. The following matrix provides guidance for recommended Actions in the absence of renovation or demolition. In the event of construction or maintenance activity which will disturb ACM more aggressive control or removal will be required.

4.1 Action Matrix

The following tables outline the action decisions based on the relationship of assessed factors. Table I applies to friable ACM. Table II applies to non-friable ACM.

Table I Decision Matrix for Friable ACM

	Condition			
Access	**Good**	**Fair**	**Poor**	**Debris**
(A)	Action 5[1]	Action 5[2]	Action 3	Action 1
(B)	Action 7	Action 6[3]	Action 3	Action 1
(C) Visible	Action 7	Action 6	Action 3	Action 2
(C) Not Visible	Action 7	Action 7	Action 4	Action 2
(D)	Action 7	Action 7	Action 7	Action 7

Table II Decision Matrix for Potentially Friable and Non-Friable ACM

	Condition			
Access	**Good**	**Fair**	**Poor**	**Debris**
(A)	Action 7	Action 7[4]	Action 3	Action 1
(B)	Action 7	Action 7	Action 3	Action 1
(C) Visible	Action 7	Action 7	Action 4	Action 2
(C) Not Visible	Action 7	Action 7	Action 4	Action 2
(D)	Action 7	Action 7	Action 7	Action 7

[1] If friable ACM in access (A)/Good condition is not proactively removed Action 7 (Manage) is recommended.
[2] If friable ACM in access (A)/Fair condition is not proactively removed repair is recommended.
[3] If friable ACM in access (B)/Fair condition is likely to be disturbed after repair proactive removal is recommended.
[4] Action 7 is recommended for all non-friable ACM in Fair condition however some clients may wish to repair or take some action primarily for cosmetic reasons

4.2 Action Definitions

The following are the definitions in the Action Matrix Table presented above:

Action Definitions	
Action 1	Clean-Up of ACM Debris Restrict access that is likely to cause a disturbance of the ACM Debris and clean up ACM Debris. Utilize appropriate asbestos precautions.
Action 2	Precautions for Access Which may Disturb ACM Debris Use appropriate means to isolate the debris or to limit entry to the area which may disturb the material. At locations where ACM Debris can remain in place in lieu of removal or clean-up (e.g. Debris on top of ceiling tiles or behind lockable door), Utilize appropriate asbestos precautions to enter the area if this will disturb debris. The precautions will be required until the ACM Debris has been cleaned up.
Action 3	ACM Removal Remove ACM. Utilize asbestos procedures appropriate to the scope of the removal work. Until it is removed, restrict access to the material so it is not disturbed.
Action 4	Precautions for Work Which may Disturb ACM in Poor Condition. Utilize appropriate asbestos precautions if ACM may be disturbed by work on or near ACM. This does not require restricting access to the area, only control of work which may contact or disturb the ACM. Removal is the only viable option if work will disturb ACM.
Action 5	Proactive ACM Removal Remove friable ACM where the presence of friable asbestos in Good condition is not desirable. If friable ACM in Fair condition is not removed, then Repair friable ACM.
Action 6	ACM Repair Repair friable ACM in Fair condition which is not likely to be damaged again or disturbed by normal use of the area or room. Pinchin recommends proactive removal if friable ACM is likely to be damaged or disturbed during normal use of the area or room
Action 7	Asbestos Management Program with Routine Surveillance Implement an Asbestos Management Program, including routine surveillance of ACM. Reassess materials regularly (typically once per year).

Master Template: Methodology Annex A to Appendix I Evaluation Criteria, HAZ, January 10, 2020

APPENDIX II

Location Summary Report

Client:City of Winnipeg Water and Waste Dept **Site: , , MB**
Building Name: MacLean Pumping Station
Survey Date: 2006-05-04 **Last Re-Assessment: 2021-06-29**

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Vestibule	80	Main	A	Masonry walls suspect to contain vermiculite. Mortar on cinder block walls and setting compound on ceramic tiles is presumed asbestos containing.
2	Lobby	150	Main	A	Masonry walls suspect to contain vermiculite. Mortar on cinder block walls and setting compound on ceramic tiles is presumed asbestos containing.
3	Washroom	120	Main	A	Masonry walls suspect to contain vermiculite. Mortar on cinder block walls and setting compound on ceramic tiles is presumed asbestos containing.
4	Control Room	792	Main	A	Masonry walls suspect to contain vermiculite. Mortar on cinder block walls is presumed asbestos containing.
5	North Stairwell	200	Main	A	Masonry walls suspect to contain vermiculite. Mortar on cinder block walls presumed asbestos containing.
6	Chlorine Analyzer Room	300	Main	A	Damaged/exposed parging cement on 1 SF air intake - June 29, 2021 Masonry walls suspect to contain vermiculite. Mortar on cinder block walls and setting compound on ceramic tiles is presumed asbestos containing.
7	Chlorine Scale Room	300	Main	A	Masonry walls suspect to contain vermiculite. Mortar on cinder block walls presumed asbestos containing.
8	Vestibule	200	Main	A	Mortar on clay tiles is presumed asbestos containing.
9	Chlorine Tonner Room	1200	Main	A	Masonry walls suspect to contain vermiculite. Mortar on cinder block walls presumed asbestos containing.
10	Vestibule	80	Main	A	Masonry walls suspect to contain vermiculite. Mortar on cinder block walls presumed asbestos containing.
11	Ammonia Room	160	Main	A	Masonry walls suspect to contain vermiculite. Mortar on cinder block walls presumed asbestos containing.
12	Upper Walkways	2200	Main	A	Damaged/exposed parging cement on 3 Rainwater leader fittings - June 29, 2021 Masonry walls suspect to contain vermiculite. Mortar on cinder block walls presumed asbestos containing.
13	Stairwell	160	Main	A	Masonry walls suspect to contain vermiculite. Mortar on cinder block walls is presumed asbestos containing.
14	Stairwell	200	Mezzanine	A	Masonry walls suspect to contain vermiculite. Mortar on cinder block walls is presumed asbestos containing.
15	North Mezzanine	600	Mezzanine	A	Masonry walls suspect to contain vermiculite. Mortar on cinder block walls is presumed asbestos containing.
16	Fan Room	3600	Mezzanine	A	Masonry walls suspect to contain vermiculite. Mortar on cinder block walls is presumed asbestos containing.
17	Stairwell	160	Mezzanine	A	Masonry walls suspect to contain vermiculite. Mortar on cinder block walls is presumed asbestos containing.
18	Generator Room	300	Mezzanine	A	Masonry walls suspect to contain vermiculite. Mortar on cinder block walls is presumed asbestos containing.
19	Pump Floor	5400	Lower Level	A	O = Phone Booth ACM insulation in jacket water cooling system were abated and pipes replaced with new one. Masonry walls suspect to contain vermiculite. Mortar on cinder block walls and setting compound on ceramic tiles is presumed asbestos containing.
20	Maintenance Room	600	Lower Level	A	
21	Valve Room	3600	Lower Level	A	Room Not accessible June 29, 2021
22	MacLean Pump Station Building Exterior	0	NA	A	Caulking Debris present on back North side of building June 29, 2021 Masonry walls suspect to contain vermiculite. Mortar on cinder block walls is presumed asbestos containing. Roof sections needs to be tested prior to any renovation or demolition activities

APPENDIX III

Asbestos Material Summary Report / Sample Log

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

PINCHIN
1.855.PINCHIN www.pinchin.com

Client:City of Winnipeg Water and Waste Dept **Site: 875 Lagimodiere Boulevard, Winnipeg, MB** **Building Name: MacLean Pumping Station** **Surveyor: Jason Combe** **Survey Date: 2006-05-04**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	V0002	DUCT, PIPING | FIBREGLASS W/PARGING | PARGING/FTG/DW/LOCATION 3	7,14,19,20,21	A	0	24	188	0	Chrysotile	Yes
Asbestos	S0003	PIPING | SWEAT WRAP PIPE INSULATION | SWEATWRAP/RWL/LOCATION 4 - 2 PHASES	4,9,11,12,14,16	A	179	0	0	0	None Detected	No
Asbestos	S0004	PIPING | PARGING OVER FIBREGLASS | PARGING/FTG/RWL/LOCATION 12	9,11,12	A	0	0	12	0	Chrysotile	Yes
Asbestos	S0005	DUCT | FIBREGLASS W/PARGING | PARGING/FAI/LOCATION 7	6,7,11,16	A	0	575	0	0	Chrysotile	Yes
Asbestos	S0006	DUCT, MECHANICAL EQUIPMENT | MAGNESIA BLOCK | MAGBLOCK	18,19	A	64	0	0	0	Chrysotile	Yes
Asbestos	S0007	OTHER | CEILING TILES (GLUE-ON) | GLUE ON TILE/12X12, LOCATION 19	19	A	0	36	0	0	None Detected	No
Asbestos	S0008	PIPING | SWEAT WRAP PIPE INSULATION | SWEAT WRAP INSULATION ON STRAIGHT PIPE, DOMESTIC WATER SUPPLY, MEZZANINE (LOCATION 15), MACLEAN PUMPING STATION	15	A	30	0	0	0	None Detected	No
Asbestos	S0009	WALL | PLASTER | STUCCO PLASTER, EXTERIOR BOTTOM WALL, MACLEAN PUMPING STATION (SAMPLE NO. 0020- AUGUST 27, 2015 - 1517151_PLM) (FOR SAMPLE 0009B-C IT WAS SAMPLE NO. 0020B-C- JUNE 30, 2016 - B131169)	22	A	0	43	0	0	None Detected	No
Asbestos	S0010	WALL | PLASTER | PLASTER ON CONCRETE, EXTERIOR BOTTOM WALL, MACLEAN PUMPING STATION (SAMPLE NO. 0021- AUGUST 27, 2015 - 1517151_PLM) (FOR SAMPLE 0010B-C IT WAS SAMPLE NO. 0021B-C- JUNE 30, 2016 - B131169)	22	A	0	300	0	0	None Detected	No
Asbestos	S0011	FLOOR, WALL | CAULKING | CAULKING, EXTERIOR WALL, MACLEAN PUMPING STATION (SAMPLE NO. 0022- AUGUST 27, 2015 - 1517151_PLM) (FOR SAMPLE 0011B-C IT WAS SAMPLE NO. 0022B-C- JUNE 30, 2016 - B131169)	22	A	0	4	0	100	Chrysotile	Yes
Asbestos	S0012	PIPING | PARGING OVER FIBREGLASS | PARGING, FITTING, CHILLED WATER SUPPLY, LOCATION 16, FAN ROOM, MEZZANINE, MACLEAN PUMPING STATION (FOR SAMPLE 0012 IT WAS SAMPLE NO. 0038- JUNE 30, 2016 - B131169), MACLEAN PUMPING STATION (FOR SAMPLE 0012B & C IT WAS JUNE 13, 2017 - B171926)	16	A	0	0	18	0	None Detected	No
Asbestos	S0013	PIPING | PARGING OVER FIBREGLASS | PARGING, FITTING, CHILLED WATER RETURN, LOCATION 16, FAN ROOM, MEZZANINE, MACLEAN PUMPING STATION (FOR SAMPLE 0013 IT WAS SAMPLE NO.	16	A	0	0	10	0	None Detected	No

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
		0039- JUNE 30, 2016 - B131169), MACLEAN PUMPING STATION (FOR SAMPLE 0013B & C IT WAS JUNE 13, 2017 - B171926)								
Asbestos	V9000	CEILING | CEMENT PRODUCT	10	A	0	80	0	0	Confirmed Asbestos	Yes
Asbestos	V9500	FLOOR | MORTAR |	1,2,3,6,19	A	0	0	0	100	Presumed Asbestos	Yes
Asbestos	V9500	WALL | MORTAR |	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19 22	A	0	0	0	80	Presumed Asbestos	Yes
Asbestos	V9500	WALL | PLASTER |	22	A	0	300	0	0	Presumed Asbestos	Yes
Asbestos	V9500	WALL | VERMICULITE/CONCRETE BLOCK WALLS	1,2,3,4,5,6,7,9,11,12,13,14,16,17,18,19,22	A	0	7135	0	32	Presumed Asbestos	Yes
Asbestos	V0000	MECHANICAL EQUIPMENT | FIBREGLASS |	3	A	0	0	0	100	Non Asbestos	No
Asbestos	V0000	PIPING | NOT INSULATED	3,6,18	A	0	0	0	100	Non Asbestos	No

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

APPENDIX IV

HMIS Data Report

Client: City of Winnipeg Water and Waste Dept **Site: MacLean Pumping Station** **Building Name: MacLean Pumping Station**
Location: #1 : Vestibule **Floor: Main** **Room #:** **Area (sqft): 80**
Survey Date: 2006-05-04 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI													
Duct	Not Found	NI													
Floor	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Floor		Ceramic Tiles	No Information	NI											
Mechanical Equipment	Not Found	NI													
Other	Not Found	NI													
Piping	Not Found	NI						800							
Structure	Beam, Deck	Concrete (precast)						800							
Wall		Masonry													
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	All	Vermiculite/concrete block walls	ALL	N/A	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)

Masonry walls suspect to contain vermiculite. Mortar on cinder block walls and setting compound on ceramic tiles is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: MacLean Pumping Station** **Building Name: MacLean Pumping Station**
Location: #2 : Lobby **Floor: Main** **Room #:** **Area (sqft): 150**
Survey Date: 2006-05-04 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Metal	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (precast)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	All	Vermiculite/concrete block walls	ALL	N/A	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall		Masonry	No Information	NI											

Masonry walls suspect to contain vermiculite. Mortar on cinder block walls and setting compound on ceramic tiles is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: MacLean Pumping Station** **Building Name: MacLean Pumping Station**
Location: #3 : Washroom **Floor: Main** **Room #:** **Area (sqft): 120**
Survey Date: 2006-05-04 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Metal	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Mechanical Equipment	Heating Water Tank	Fibreglass	Surface	Foil Face	B	Y		100			%	V0000	Non-Asbestos		None
Mechanical Equipment	Heating Water Tank	Horsehair	Surface	Canvas	B	Y									
Other	Not Found	NI	No Information	NI											
Piping	Domestic Water (Hot and Cold)	Fibreglass	Straight	Canvas	B	Y									
Piping	Domestic Water (Hot and Cold)	Not Insulated	Fitting	N/A	B	Y		100			%	V0000	Non-Asbestos		None
Structure	Beam, Deck	Concrete (precast)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	All	Vermiculite/concrete block walls	ALL	N/A	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)

Masonry walls suspect to contain vermiculite. Mortar on cinder block walls and setting compound on ceramic tiles is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: MacLean Pumping Station** **Building Name: MacLean Pumping Station**
Location: #4 : Control Room **Floor: Main** **Room #:** **Area (sqft): 792**
Survey Date: 2006-05-04 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Metal	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Electrical Panel	Not Insulated	No Information	NI											
Piping	Domestic Water (Hot and Cold)	Fibreglass	Straight	Canvas	B	Y									
Piping	Domestic Water (Hot and Cold)	Abated Material	Fitting	Canvas	B	Y					EA	V0002	[None]	25-50%	[Abated]
Piping	Rain Water Leader	Sweat Wrap pipe insulation	Straight	Canvas	B	Y		12			LF	S0003	None Detected	N.D.	None
Piping	Rain Water Leader	Sweat Wrap pipe insulation	Straight	Canvas	C	N		12			LF	V0003	None Detected	N.D.	None
Structure	Beam, Deck	Concrete (precast)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	All	Vermiculite/concrete block walls	ALL	N/A	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall		Masonry	No Information	NI											

Masonry walls suspect to contain vermiculite. Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: MacLean Pumping Station** **Building Name: MacLean Pumping Station**
Location: #5 : North Stairwell **Floor: Main** **Room #:** **Area (sqft): 200**
Survey Date: 2006-05-04 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (precast)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	All	Vermiculite/concrete block walls	ALL	N/A	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall		Masonry	No Information	NI											

Masonry walls suspect to contain vermiculite. Mortar on cinder block walls presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: MacLean Pumping Station** **Building Name: MacLean Pumping Station**
Location: #6 : Chlorine Analyzer Room **Floor: Main** **Room #:** **Area (sqft): 300**
Survey Date: 2006-05-04 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Fresh Air Intake	Fibreglass w/Parging	Surface	Canvas	C	Y		29	1		SF	V0005	Chrysotile	50-75%	Confirmed Asbestos(F)
Duct	Supply Air	Not Insulated	No Information	NI											
Floor	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Domestic Water (Hot and Cold)	Fibreglass	Straight	Canvas	B	Y									
Piping	Domestic Water (Hot and Cold)	Not Insulated	Fitting	N/A	B	Y		100			%	V0000	Non-Asbestos		None
Structure	Beam, Deck	Concrete (precast)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	All	Vermiculite/concrete block walls	Insulation	Masonry	B	N		960			SF	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall		Masonry	No Information	NI											

Damaged/exposed parging cement on 1 SF air intake - June 29, 2021 Masonry walls suspect to contain vermiculite. Mortar on cinder block walls and setting compound on ceramic tiles is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: MacLean Pumping Station** **Building Name: MacLean Pumping Station**
Location: #7 : Chlorine Scale Room **Floor: Main** **Room #:** **Area (sqft): 300**
Survey Date: 2006-05-04 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Fresh Air Intake	Fibreglass w/Parging	Surface	Canvas	C	Y		30			SF	S0005	Chrysotile	50-75%	Confirmed Asbestos(F)
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	B	Y		2			EA	V0002	Chrysotile	25-50%	Confirmed Asbestos(F)
Structure	Beam, Deck	Concrete (precast)	No Information	NI											
Wall		Vermiculite/concrete block walls	Insulation	Masonry	B	N		1040			SF	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Masonry walls suspect to contain vermiculite. Mortar on cinder block walls presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: MacLean Pumping Station** **Building Name: MacLean Pumping Station**
Location: #8 : Vestibule **Floor: Main** **Room #:** **Area (sqft): 200**
Survey Date: 2006-05-04 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping		Not Insulated	No Information	NI											
Structure	Beam, Deck	Concrete (precast)	No Information	NI											
Wall	All	Mortar	Surface	Quarry tile	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	No Information	NI											

Mortar on clay tiles is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: MacLean Pumping Station** **Building Name: MacLean Pumping Station**
Location: #9 : Chlorine Tonner Room **Floor: Main** **Room #:** **Area (sqft): 1200**
Survey Date: 2006-05-04 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		5			EA	V0004	Chrysotile	25-50%	Confirmed Asbestos(F)
Piping	Rain Water Leader	Sweat Wrap pipe insulation	Straight	Canvas	C	Y		40			LF	V0003	None Detected	N.D.	None
Structure	Beam, Deck	Concrete (precast)	No Information	NI											
Wall		Vermiculite/concrete block walls	Insulation	Masonry	B	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	No Information	NI											

Masonry walls suspect to contain vermiculite. Mortar on cinder block walls presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: MacLean Pumping Station** **Building Name: MacLean Pumping Station**
Location: #10 : Vestibule **Floor: Main** **Room #:** **Area (sqft): 80**
Survey Date: 2006-05-04 **Last Re-Assessment: 2021-06-29**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Cement Product	Surface	N/A	C	Y		80			SF	V9000	Confirmed Asbestos		Confirmed Asbestos(NF)
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	N/A	NI	No Information	NI											
Wall	All	Mortar	Surface	Quarry tile	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	No Information	NI											

Masonry walls suspect to contain vermiculite. Mortar on cinder block walls presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: MacLean Pumping Station** **Building Name: MacLean Pumping Station**
Location: #11 : Ammonia Room **Floor: Main** **Room #:** **Area (sqft): 160**
Survey Date: 2006-05-04 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Fresh Air Intake	Fibreglass w/Parging	Surface	Canvas	C	Y		15			SF	V0005	Chrysotile	50-75%	Confirmed Asbestos(F)
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		2			EA	V0004	Chrysotile	25-50%	Confirmed Asbestos(F)
Piping	Rain Water Leader	Sweat Wrap pipe insulation	Straight	Canvas	C	Y		10			LF	V0003	None Detected	N.D.	None
Structure	Beam, Deck	Concrete (precast)	No Information	NI											
Wall		Vermiculite/concrete block walls	Insulation	Masonry	B	N		1160			SF	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Masonry walls suspect to contain vermiculite. Mortar on cinder block walls presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: MacLean Pumping Station** **Building Name: MacLean Pumping Station**
Location: #12 : Upper Walkways **Floor: Main** **Room #:** **Area (sqft): 2200**
Survey Date: 2006-05-04 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Metal	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Ceramic Tiles	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		2	3		EA	S0004	Chrysotile	25-50%	Confirmed Asbestos(F)
Piping	Rain Water Leader	Sweat Wrap pipe insulation	Straight	Canvas	C	Y		20			LF	V0003	None Detected	N.D.	None
Piping	Rain Water Leader	Sweat Wrap pipe insulation	Straight	Canvas	C	N		4			LF	V0003	None Detected	N.D.	None
Structure	Beam, Deck	Concrete (precast)	No Information	NI											
Wall		Vermiculite/concrete block walls	Insulation	Masonry	B	N		3500			SF	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	No Information	NI											

Damaged/exposed parging cement on 3 Rainwater leader fittings - June 29, 2021 Masonry walls suspect to contain vermiculite. Mortar on cinder block walls presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: MacLean Pumping Station** **Building Name: MacLean Pumping Station**
Location: #13 : Stairwell **Floor: Main** **Room #:** **Area (sqft): 160**
Survey Date: 2006-05-04 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Ceramic Tiles	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (precast)	No Information	NI											
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	All	Vermiculite/concrete block walls	ALL	N/A	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)

Masonry walls suspect to contain vermiculite. Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: MacLean Pumping Station** **Building Name: MacLean Pumping Station**
Location: #14 : Stairwell **Floor: Mezzanine** **Room #:** **Area (sqft): 200**
Survey Date: 2006-05-04 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Domestic Water (Hot and Cold)	Parging over Fibreglass	Fitting	Canvas	C	Y		1			EA	V0002	Chrysotile	25-50%	Confirmed Asbestos(F)
Piping	Domestic Water (Hot and Cold)	Sweat Wrap pipe insulation	Straight	Canvas	C	Y		11			LF	V0003	None Detected	N.D.	None
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Vermiculite/concrete block walls	Insulation	Masonry	B	N		475			SF	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Masonry walls suspect to contain vermiculite. Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: MacLean Pumping Station** **Building Name: MacLean Pumping Station**
Location: #15 : North Mezzanine **Floor: Mezzanine** **Room #:** **Area (sqft): 600**
Survey Date: 2006-05-04 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Domestic Water (Hot and Cold)	Sweat Wrap pipe insulation	Straight	Canvas	C	Y		30			LF	S0008	None Detected	N.D.	None
Piping	Domestic Water (Hot and Cold)	Abated Material	Fitting	Canvas	C	Y		3			EA	V0002	[None]	25-50%	[Abated]
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Masonry walls suspect to contain vermiculite. Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: MacLean Pumping Station** **Building Name: MacLean Pumping Station**
Location: #16 : Fan Room **Floor: Mezzanine** **Room #:** **Area (sqft): 3600**
Survey Date: 2006-05-04 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Fresh Air Intake	Fibreglass w/Parging	Surface	Canvas	C	Y		500			SF	V0005	Chrysotile	50-75%	Confirmed Asbestos(F)
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Mechanical Equipment	Exchanger	Not Insulated	No Information	NI											
Mechanical Equipment		Not Insulated	No Information	NI											
Mechanical Equipment		Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Chilled Water Return	Parging over Fibreglass		Canvas	B	Y		8	2		EA	S0013	None Detected	N.D.	None
Piping	Chilled Water Supply	Parging over Fibreglass		Canvas	B	Y		15	3		EA	S0012	None Detected	N.D.	None
Piping	Domestic Water (Hot and Cold)	Sweat Wrap pipe insulation	Straight	Canvas	C	Y		70			LF	V0003	None Detected	N.D.	None
Piping	Domestic Water (Hot and Cold)	Abated Material	Fitting	Canvas	C	Y					EA	V0002	[None]	25-50%	[Abated]
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	All	Vermiculite/concrete block walls	Surface	Preformed Block	A	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)

Masonry walls suspect to contain vermiculite. Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: MacLean Pumping Station** **Building Name: MacLean Pumping Station**
Location: #17 : Stairwell **Floor: Mezzanine** **Room #:** **Area (sqft): 160**
Survey Date: 2006-05-04 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Domestic Water (Hot and Cold)	Abated Material	Fitting	Canvas	C	Y					EA	V0002	[None]	25-50%	[Abated]
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	All	Vermiculite/concrete block walls	ALL	Preformed Block	A	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)

Masonry walls suspect to contain vermiculite. Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: MacLean Pumping Station** **Building Name: MacLean Pumping Station**
Location: #18 : Generator Room **Floor: Mezzanine** **Room #:** **Area (sqft): 300**
Survey Date: 2006-05-04 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Generator Exhaust	Magnesia block	System		C	Y		40			LF	S0006	Amosite	5-10%	Confirmed Asbestos(F)
Mechanical Equipment	Generator Unit	Not Insulated	No Information	NI											
Mechanical Equipment	Generator Unit	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Domestic Water (Hot and Cold)	Abated Material	Fitting	Canvas	C	Y					EA	V0002	[None]	25-50%	[Abated]
Piping	Gas Pipe Line	Not Insulated	Fitting	N/A	C	Y		100			%	V0000	Non-Asbestos		None
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	All	Vermiculite/concrete block walls	ALL	Preformed Block	A	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)

Masonry walls suspect to contain vermiculite. Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: MacLean Pumping Station** **Building Name: MacLean Pumping Station**
Location: #19 : Pump Floor **Floor: Lower Level** **Room #:** **Area (sqft): 5400**
Survey Date: 2006-05-04 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Exhaust	Magnesia block	System		C	Y		24			LF	V0006	[Asbestos]	5-10%	[Asbestos](F)
Duct	Fresh Air Intake	Fibreglass w/Parging	Surface	Canvas	C	Y		24			SF	V0002	Chrysotile	25-50%	Confirmed Asbestos(F)
Floor	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Pompe	Not Insulated	No Information	NI											
Mechanical Equipment	Pompe	Not Insulated	No Information	NI											
Mechanical Equipment	Pompe	Not Insulated	No Information	NI											
Mechanical Equipment	Pompe	Not Insulated	No Information	NI											
Mechanical Equipment	Pompe	Not Insulated	No Information	NI											
Other		Ceiling tiles (glue-on)	Surface	N/A	B	Y		36			SF	S0007	None Detected	N.D.	None
Piping	Domestic Water (Hot and Cold)	Parging over Fibreglass	Fitting	Canvas	C	Y		35			EA	V0002	Chrysotile	25-50%	Confirmed Asbestos(F)
Piping		Abated Material	Fitting	Canvas	B	Y					EA	V0002	[None]	25-50%	[Abated]
Structure	Beam, Deck	Concrete (precast)	No Information	NI											
Wall	All	Mortar	ALL	Masonry	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	All	Vermiculite/concrete block walls	ALL	Preformed Block	A	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall		Concrete (poured)	No Information	NI											

O = Phone Booth ACM insulation in jacket water cooling system were abated and pipes replaced with new one. Masonry walls suspect to contain vermiculite. Mortar on cinder block walls and setting compound on ceramic tiles is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: MacLean Pumping Station** **Building Name: MacLean Pumping Station**
Location: #20 : Maintenance Room **Floor: Lower Level** **Room #:** **Area (sqft): 600**
Survey Date: 2006-05-04 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Domestic Water (Hot and Cold)	Parging over Fibreglass	Fitting	Canvas	C	Y		10			EA	V0002	Chrysotile	25-50%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: MacLean Pumping Station** **Building Name: MacLean Pumping Station**
Location: #21 : Valve Room **Floor: Lower Level** **Room #:** **Area (sqft): 3600**
Survey Date: 2006-05-04 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Domestic Water (Hot and Cold)	Parging over Fibreglass	Fitting	Canvas	C	Y		140			EA	V0002	Chrysotile	25-50%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Room Not accessible June 29, 2021 July 2019 - 2 damage fittings in the north part of valve room 2nd door July 2 2019 - 1 damage fitting in South part of valve room (last door)

Client: City of Winnipeg Water and Waste Dept **Site: MacLean Pumping Station** **Building Name: MacLean Pumping Station**

Location: #22 : MacLean Pump Station Building Exterior **Floor: NA** **Room #:** **Area (sqft): 0**

Survey Date: 2006-05-04 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Floor	Exterior	Caulking								4	SF	V0011	Chrysotile	1-5%	Confirmed Asbestos(NF)
Wall		Clay Tile (block)	Exterior		A	Y		100			%				
Wall		Vermiculite/concrete block walls	Insulation	Masonry	B	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	All	Mortar	Surface	Quarry tile	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	Base	Plaster	Base		A	Y		300			SF	S0010	None Detected	N.D.	None
Wall	Exterior	Plaster	Base		A	Y		43			SF	S0009	None Detected	N.D.	None
Wall	Exterior	Caulking			A	Y		100			%	S0011	Chrysotile	1-5%	Confirmed Asbestos(NF)
Wall	Fascia	Plaster	Exterior		A	Y		300			SF	V9500	[None]		[None]

Caulking Debris present on back North side of building June 29, 2021 Masonry walls suspect to contain vermiculite. Mortar on cinder block walls is presumed asbestos containing. Roof sections needs to be tested prior to any renovation or demolition activities

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

FINAL

Asbestos Reassessment

Grit Building, North End Water Pollution Control Centre
2230 Main Street,
Winnipeg, Manitoba

Prepared for:

City of Winnipeg Water and Waste Department
110 – 1199 Pacific Avenue
Winnipeg, Manitoba R3E 3S8

October 14, 2021

Pinchin File: 289439

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EXECUTIVE SUMMARY

City of Winnipeg Water and Waste Department (Client) retained Pinchin Ltd. (Pinchin) to conduct an asbestos building materials reassessment of the Grit Building, North End Water Pollution Control Centre located at 2230 Main Street, Winnipeg, Manitoba. The reassessment was performed on June 24, 2021.

The objective of the reassessment was to evaluate the condition and quantity of previously reported asbestos-containing materials (ACM), and develop corrective action plans as required for the purposes of long-term management. The results of this assessment are not intended for construction, renovation, demolition or project tendering purposes.

The reassessment was based on information gathered from previous comprehensive assessment report completed by Pinchin Ltd. (Pinchin). The original assessment report for the Grit Building, North End Water Pollution Control Centre was dated March 6, 2007. The results of the original report and subsequent survey update reports were reviewed prior to completing the reassessment.

The assessed area was limited to the parts of the building where the original report had indicated asbestos-containing materials (ACMs) were present. Rooms where no ACMs were reported were not inspected.

HMIS data has been updated online.

SUMMARY OF FINDINGS

Asbestos-containing materials (ACM) are present as follows:

- Asbestos-containing parging cement is present on pipe fittings of the rainwater leader, heating water, and glycol pipe systems throughout the building. The parging cement is a friable material which is jacketed with canvas and is in GOOD condition.
- Asbestos-containing parging cement is present as duct insulation in the West Basement (Location No. 12). Parging cement is a friable material which is jacketed with canvas. It is rated in GOOD condition.
- Asbestos-containing tar mastic and caulking is present on the exterior walls of the building. Tar mastic and caulking are non-friable. They are in GOOD condition.
- Sweatwrap presumed to contain asbestos is present as insulation on straight sections of the rainwater leader system pipes within Location No.6. The sweat wrap is potentially friable and is jacketed with canvas. It is in GOOD condition; and
- Mortar present on masonry walls throughout the facility is presumed to contain asbestos. The mortar is potentially friable and is in GOOD condition.

SUMMARY OF RECOMMENDATIONS

The following is a summary of significant recommendations; refer to the body of the report for detailed recommendations:

1. Perform a reassessment of asbestos materials on an annual basis;
2. Prior to renovations or demolition, perform a pre-construction assessment to identify any hazardous materials that may be disturbed by the work; and
3. Follow appropriate safe work procedures when handling or disturbing asbestos.

This Executive Summary is subject to the same standard limitations as contained in the report and must be read in conjunction with the entire report.

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APPENDICES

1.0 INTRODUCTION AND SCOPE

City of Winnipeg Water and Waste Department (Client) retained Pinchin Ltd. (Pinchin) to conduct an asbestos building materials reassessment of the Grit Building, North End Water Pollution Control Centre located at 2230 Main Street, Winnipeg, Manitoba.

Pinchin performed the reassessment on June 24, 2021. The surveyor was accompanied by City of Winnipeg Water and Waste Representatives during the reassessment. The assessed area was occupied at the time of the assessment.

The objectives of the reassessment were to document the locations, quantities and conditions of previously identified asbestos containing building materials and develop corrective action plans as required. This reassessment is only to be used for the purposes of long-term management and routine maintenance. The results of this reassessment are not to be used for construction, renovation, demolition or project tendering purposes.

1.1 Scope of Assessment

The objective of the reassessment was to evaluate the condition and quantity of previously reported asbestos-containing materials (ACM), and develop corrective action plans as required.

Additional objectives included the following:

- Documentation of any asbestos abatement that was performed since the last reassessment.

Please refer to Appendix I for a detailed description of the methodology used for this assessment.

2.0 METHODOLOGY

Pinchin conducted an inspection of previously identified asbestos-containing materials (ACM) to evaluate the current condition of all accessible identified in the most recent assessment. The surveyor made reference to any existing assessment or abatement reports (as provided by the Client).

As per the original scope of work, concealed locations such as ceiling spaces above solid ceilings, shafts and chases were accessed via existing access panels. Our investigation did not include demolition of drywall or plaster walls to view concealed conditions. Structural items or exterior building finishes were not removed to determine the presence of concealed materials.

For further details on the methodology including test methods, refer to Appendix I.

3.0 BACKGROUND INFORMATION

3.1 Existing Reports and Summary of Asbestos Abatement

3.1.1 Review of Previous Reports

The reassessment was based on information gathered from previous comprehensive assessment report completed by Pinchin Ltd. (Pinchin). The original assessment report for the Grit Building, North End Water Pollution Control Centre was dated March 6, 2007. The results of the original report and subsequent survey update reports were reviewed prior to completing the reassessment.

3.1.2 Summary of Asbestos Abatement since the Previous Assessment

Abatement work has been completed on site since the last assessment. Based on a review of the above noted abatement reports, and observations made during the reassessment, the following abatement work has been conducted, since completion of the previous report:

- Damaged/exposed parging cement previously identified on 2 fittings within the Northeast Basement, Location No.11 have been removed.

4.0 FINDINGS

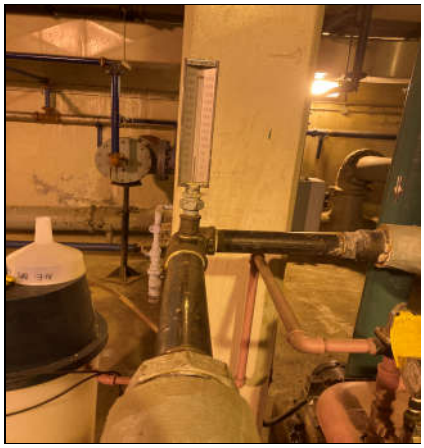
The following section summarizes the findings of the reassessment and provides a general description of the asbestos-containing materials (ACM) identified and their locations.

For details on approximate quantities, condition, friability and locations of asbestos materials; refer to the Asbestos Material Summary Report and HMIS Data Report in Appendix III and IV.

4.1 Pipe Insulation

Asbestos-containing parging cement is present on pipe fittings of the rainwater leader, heating water, and glycol pipe systems throughout the building. Parging cement is a friable material which is jacketed with canvas and is in GOOD condition. The 2 previously identified damaged fittings within Location No.11 were removed.

Sweatwrap insulation (brown layered paper) is present on straight sections of rainwater leader system pipes in the Truck Loading Area (Location No. 6). One sample was previously collected from a damaged portion (Sample No. 0040). Asbestos was not detected, however, based on current guidelines, two additional samples are required to rule out the presence of asbestos. Sweat wrap should be considered suspect to contain asbestos. The sweat wrap is potentially friable and is in GOOD condition.



Damaged fittings removed, Location No.11

4.2 Duct Insulation

Asbestos-containing parging cement duct insulation is present in the West Basement (Location No. 12). Parging cement is a friable material which is jacketed with canvas. It is in GOOD condition.

4.3 Sealants, Caulking, and Putty

An asbestos-containing black tar mastic and grey caulking are present on the exterior walls. Mastic and caulking are non-friable materials which are in GOOD condition.

4.4 Roofing Products

No visual inspection or sampling was conducted at this location. Destructive testing will be required prior to any renovation or demolition activities.

4.5 Other Building Materials

The mortar present on masonry walls throughout the facility is presumed to contain asbestos. The mortar is potentially friable and is in GOOD condition.

4.6 Excluded Asbestos Materials

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

- Roofing felts and tar, mastics;
- Floor levelling compound;
- Ceramic tile setting compound;

- Elevator and lift brakes;
- Electrical components;
- Moulded plastic components (laboratory bench tops);;
- Refractory materials and insulations in boilers, incinerators and stacks
- Insulation under metal clad boilers and vessels;
- Mechanical packing, ropes and gaskets;
- Vermiculite;
- Adhesives and duct mastics;
- Caulking and putties;
- Fibre-reinforced paints and coatings;
- Paper products;
- Soffit and fascia boards;
- Fire resistant doors;
- Metal clad finishes (Galbestos);
- Stucco, plaster or other cementitious parge coatings;
- Vibration dampers on HVAC equipment;
- Terrazzo;
- Ropes and gaskets in cast-iron bell and spigot joints; and
- Sealants on pipe threads.

5.0 RECOMMENDATIONS

5.1 General

Perform a detailed intrusive assessment prior to building renovation or demolition operations. The assessment should include; destructive testing (e.g. coring and/or removal of building finishes and components), sampling of other hazardous materials (lead, mercury, PCBs, mould, etc.), and materials not tested in this study (e.g. roofing materials, caulking, mastics).

5.2 On-going Management and Maintenance

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

Perform a reassessment of asbestos materials on an annual basis.

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

Update the asbestos inventory report for the building upon completion of any abatement of ACM.

6.0 TERMS AND LIMITATIONS

This work was performed subject to the Terms and Limitations presented or referenced in the proposal for this project.

Information provided by Pinchin is intended for Client use only. Pinchin will not provide results or information to any party unless disclosure by Pinchin is required by law. Any use by a third party of reports or documents authored by Pinchin or any reliance by a third party on or decisions made by a third party based on the findings described in said documents, is the sole responsibility of such third parties. Pinchin accepts no responsibility for damages suffered by any third party as a result of decisions made or actions conducted. No other warranties are implied or expressed.

7.0 REFERENCES

The following legislation and documents were referenced in completing the assessment and this report:

1. Workplace Safety and Health Act W210.
2. Workplace Safety and Health Hazard Regulation (Manitoba Regulation 217/2006), under the Workplace Safety and Health Act.
3. Manitoba Regulation MR 474/88, Manitoba PCB Regulation made under The Dangerous Goods Act.
4. Guide for Asbestos Management – Safe Work Manitoba.
5. Guideline Managing Demolition Debris Containing Hazardous Materials – Environmental Enforcement and Compliance Branch – Manitoba Conservation and Climate
6. Canada Occupational Health and Safety Regulation, SOR/86-304.
7. Consolidated Transportation of Dangerous Goods Regulations, including Amendment SOR/2019-101, Transportation of Dangerous Goods Act.

APPENDIX I

Methodology

1.0 METHODOLOGY

Pinchin conducts an inspection of previously identified asbestos-containing materials (ACM) to evaluate the current condition of all accessible identified in the most recent assessment. The surveyor makes reference to any existing assessment or abatement reports (as provided by the Client).

1.1 Limitations on Scope

The reassessment excludes the following:

- Articles belonging to the owner, tenant or occupant (e.g. stored items, furniture, appliances, etc.);
- Underground materials or equipment (e.g. vessels, drums, underground storage tanks, pipes, etc.);
- Building envelope, structural components, inaccessible or concealed materials or other items where sampling may cause consequential damage to the property.
- Energized systems (e.g. internal boiler components, elevators, mechanical or electrical components);
- Controlled products (e.g. stored chemicals, operational or process-related substances); and
- Materials not typically associated with construction (e.g. settled dust, spills, residual contamination from prior spills, etc.).

As per the original scope of work, concealed locations such as ceiling spaces above solid ceilings, shafts and chases are accessed via existing access panels. Our investigation does not include demolition of drywall or plaster walls to view concealed conditions. Structural items or exterior building finishes are not removed to determine the presence of concealed materials.

1.2 Methodology

Existing sampling data is reviewed and relied upon. If sampling is conducted, samples are collected at a rate that is in compliance with the requirements of local regulations and guidelines. The sampling strategy is also based on known ban dates and phase out dates of the use of asbestos; sampling of certain building materials is not conducted after specific construction dates. In addition, to be conservative, several years past these dates are added to account for some uncertainty in the exact start / finish date of construction and associated usage of ACM.

Materials listed as exclusions in the previous reports remain as exclusions. Sampling, assessment or verification of excluded materials was not conducted.

If present, the following materials are presumed to be asbestos-containing and are best sampled immediately prior to commencing renovation/disturbance:

- Roofing felts and tar, mastics;
- Floor levelling compound;
- Ceramic tile setting compound;
- Elevator and lift brakes;
- Electrical components or wiring within control centers, breakers, motors or lights, insulation on wiring;
- Moulded plastic components (laboratory bench tops);
- Refractory materials and insulations in boilers, incinerators and stacks;
- Insulation under metal clad boilers and vessels;
- Mechanical packing, ropes and gaskets;
- Vermiculite;
- Adhesives and duct mastics;
- Caulking and putties;
- Fibre-reinforced paints and coatings;
- Paper products;
- Soffit and fascia boards;
- Fire resistant doors;
- Metal clad finishes;
- Exterior cladding;
- Stucco, plaster or other cementitious parge coatings; and
- Vibration dampers on HVAC equipment.

2.0 ANALYSIS AND IDENTIFICATION OF ASBESTOS MATERIALS

Pinchin relies on the analytical results of prior surveys. Asbestos bulk samples (if required) are analyzed at an independent NVLAP accredited laboratory. Preliminary identification of asbestos fibres is made using polarized light microscopy, with confirmation of the presence and type of asbestos made by dispersion staining optical microscopy. The analysis is performed in accordance with Test Method EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials, June 1993. All independent laboratories used by Pinchin, including our laboratory, are certified under the National Voluntary Laboratory Accreditation Program (NVLAP) to perform asbestos analysis of bulk samples.

Analytical results are compared to the following criteria:

Jurisdiction	Friable	Non-Friable
Manitoba	0.1%[1]	1%
Federal	1%	1%

The asbestos analysis is completed using a stop positive approach. Only one result meeting the above regulated criteria is required to determine that a material is asbestos-containing, but all samples must be analyzed to conclusively determine that a material is non-asbestos. The laboratory stops analyzing samples from a homogeneous material once a result equal to or greater than the regulated criteria is detected in any of the samples of that material. All samples of a homogeneous material are analyzed if no asbestos is detected. In some cases, all samples are analyzed in the sample set regardless of result.

Where building materials are described in the report as “non-asbestos” or “does not contain asbestos”, this means that either no asbestos was detected by the analytical method utilized in any of the multiple samples or, if detected, it is below the lower limit of an asbestos-containing material in the applicable regulation.

Asbestos materials are evaluated in order to make recommendations regarding remedial work. The priority for remedial action is based on several factors:

- Friability (friable or non-friable);
- Condition (good, fair, poor, debris);
- Accessibility (ranking from accessible to all building users to inaccessible);
- Visibility (whether the material is obscured by other building components); and
- Efficiency of the work (for example, if damaged ACM is being removed in an area, it may be most practical to remove all ACM in the area even if it is in good condition).

For a complete description of the Evaluation Criteria and Basis of Recommendations, refer to Annex A.

Template: Methodology for Asbestos Re-Assessment, HAZ, January 10, 2020

METHODOLOGY ANNEX A EVALUATION CRITERIA

1.0 EVALUATION CRITERIA AND BASIS OF RECOMMENDATIONS

The detailed asbestos assessment provides information regarding the location, condition, accessibility and friability of the asbestos-containing materials (ACM). In order to make recommendations for compliance with current regulations, Pinchin developed the following criteria.

2.0 EVALUATION OF CONDITION

2.1 Friable Sprayed or Trowelled Fireproofing, Thermal Insulation and Texture Finishes (Surfacing Materials)

To evaluate the condition of ACM sprayed or trowelled on fireproofing, sprayed or trowelled thermal insulation (non-mechanical), or texture, decorative or acoustic finishes, the following criteria are applied:

Good	Surface of material shows no significant signs of damage, deterioration or delamination. Good condition includes unencapsulated or unpainted fireproofing or texture finishes, where no or limited delamination or damage is observed, or encapsulated fireproofing or texture finishes where the encapsulant or paint has been applied after the damage or fallout occurred.
Poor	A sprayed material that shows signs of significant damage or is significantly delaminating or deteriorating. This may be limited to surface delamination or some portion of the substrate may be exposed.

In Locations where damage exists in isolated areas, both good and poor condition may be applicable. The extent of each condition will be recorded. Fair condition is not utilized in the evaluation of ACM sprayed or trowelled fireproofing, sprayed or trowelled thermal insulation (non-mechanical), or texture, decorative or acoustic finishes.

The evaluation of the above products above ceilings may be limited by the number of observations and by building components such as ducts or full height walls that obstruct the above ceiling observations.

2.2 Friable Mechanical or Thermal System Insulation (TSI)

To evaluate the condition of mechanical insulation on vessels, boilers, breeching, ducts, pipes, fan units, equipment etc. the following criteria are applied:

Good	Insulation is completely covered in jacketing and exhibits no evidence of damage or deterioration. No insulation is exposed. Includes conditions where the jacketing has minor damage (i.e. scuffs or stains), but the jacketing is not penetrated.
Fair	Minor penetrating damage to jacketed insulation (cuts, tears, nicks, deterioration or delamination) or undamaged insulation that has never been jacketed. Insulation is exposed but not showing surface disintegration. The extent of missing insulation ranges from minor to none. Damage can be repaired.
Poor	Original insulation jacket is missing, damaged, deteriorated or delaminated. Insulation is exposed and significant areas have been dislodged. Damage cannot be readily repaired. Includes components where insulation may have been removed incompletely.

The evaluation of mechanical insulation may be limited by the number of observations made and building components such as ducts or full height walls that obstruct observations. It is often not possible to observe each foot of mechanical insulation from all angles.

2.3 Potentially Friable Materials and Miscellaneous Friable Materials

Potentially friable ACM are products that are basically non-friable while in place but have the potential to generate friable dust upon removal or if significantly disturbed without appropriate procedures. These products may become friable if damaged. Potentially friable materials include materials such as acoustic ceiling tiles and plaster. To evaluate the condition of potentially friable materials, the following criteria are applied:

Good	No significant damage or deterioration. Still serving its intended use as a building material or finish.
Fair	Showing signs of some cracking or breakage, but is not deteriorating (e.g. cracked plaster, broken but in place ceiling tile, missing tile or section of plaster etc.). The condition is such that it is still serving its intended use as a building material or finish but may require repair for mainly cosmetic purposes.
Poor	Significant deterioration or breaking apart of the material. Material has deteriorated to the point it is not serving its intended use as building material or finish. Material has deteriorated to a point it has become friable. Normally potentially friable ACM in Poor condition is not repairable and requires at least localized removal and replacement.

2.4 Non-Friable Materials

Non-friable ACM cover a wide range of products with a wide variation in their tendency to release dust or asbestos fibres to the air. Many of these materials, (particularly where the matrix is an unweathered bitumen, asphalt or tar material) do not release fibres except in very unusual circumstances or during significant disturbance (e.g. use of abrasive power tools). Others with a cementitious matrix (asbestos-cement products) can more readily release dust due to abrasion, demolition, weathering, etc. The potential for asbestos release from non-friable ACM is always lower than from friable ACM. To evaluate the condition of non-friable Materials, the following criteria are applied:

Good	No significant damage or deterioration. Still serving its intended use as a building material or finish.
Fair	Showing signs of some cracking or breakage but is not deteriorating (e.g. cracked vinyl floor tile, missing piece of tile or transite, etc.). The condition is such that it is still serving its intended use as a building material or finish but may require repair for mainly cosmetic purposes.
Poor	Significant deterioration or breaking apart of the material to the point at which it cannot be repaired, and it will require at least local removal. Material has deteriorated to the point it is not serving its intended use as building material or finish. Material may have deteriorated to a point where traffic or disturbance may cause it to become friable.

2.5 Evaluation of ACM Debris

The identification of the exact location or presence of debris on the top of ceiling tiles is limited by the number of observations made and the presence of building components such as ducts or full height walls that obstruct observations.

The presence of fallen or dislodged ACM is noted separately from the ACM source and is referred to as Debris. Debris may be friable if from a friable ACM source or a badly deteriorated non-friable ACM source. Debris may also be non-friable (such as fallen pieces of transite sheet or mastic fittings, or broken, dislodged floor tiles).

Debris	Debris may be friable or non-friable but is always identified as debris.

2.6 Evaluation of Presumed Asbestos-Containing Material (PACM)

Presumed asbestos-containing materials (PACM), are building materials that may contain asbestos but were not sampled or analyzed due to inaccessibility or the need to perform destructive testing to obtain a reasonable sample set. Evaluation of these materials is based on the assumption that these PACM are asbestos-containing.

A list of PACM is provided in the report and they are generally not included in the detailed room by room reports. Typically, they are excluded because they are inaccessible or present in very small quantities. If PACM are evaluated, Pinchin uses the criteria that correspond with the type (and friability) of the material listed above.

3.0 EVALUATION OF ACCESSIBILITY

The accessibility of building materials known or suspected of being ACM is rated according to the following criteria:

Access (A)	Common areas of the building within reach of all building users (approximately 8 '-9' from floor or standard ceiling height). Includes other areas where occupant activities may result in disturbance of material that is not normally within reach from floor level, but may be disturbed by common activities (e.g. gymnasiums, workshops, warehouses)
Access (B)	Areas of the building accessed primarily by Maintenance/Caretaking/Janitorial Staff and within reach without use of a ladder. Includes areas within reach in Boiler Rooms, Electrical Rooms, Janitors Closets, Elevator Rooms, Mechanical Rooms, etc. Includes materials within reach from fixed ladders or catwalks, mezzanines, and accessible pipe chases.
Access (C) and Visible	Areas of the building above 8' - 9' where use of a ladder or scaffold is required to reach the ACM. Only includes ACM that are visible to view without the removal or opening of other building components such as ceiling tiles or service access panels. Visible column on HMIS sheets will say YES.
Access (C) and not Visible	Areas of the building above 8' - 9' where use of a ladder or scaffold is required to reach the ACM. Includes ACM that are not visible to view and require the removal of a building component to see, such as ceilings tiles or access panels to view and access. Includes rarely entered crawl spaces, attic spaces, etc. Observations will be limited to the extent visible from the access points. Visible column on HMIS sheets will say NO.
Access (D)	Areas of the building behind inaccessible solid ceiling systems, walls or equipment etc. where demolition of the ceiling, wall or equipment etc. is required to reach the ACM. Material inaccessible due to height or location or is only accessed under unusual situations. Evaluation of condition and extent of ACM is limited or impossible, depending on the surveyor's ability to visually examine materials in Access D.

4.0 ACTION MATRIX AND DEFINITIONS

Pinchin's evaluation of the viability of a specific asbestos control option is based on the consideration of the friability, condition, accessibility and visibility of a material. The logic used is that damaged ACM located in an area frequently accessed by all building occupants is of a higher priority than damaged ACM located in an infrequently accessed service area. The action matrix considers the potential for fibre release (primarily from friable ACM) and the possible concerns from regulatory bodies and many building occupants to all damaged ACM (including non-friable).

In any building with asbestos, many current regulations require an Asbestos Management Program be implemented. Depending on the condition and the accessibility, more active measures such as repair or removal may be recommended. The following matrix provides guidance for recommended Actions in the absence of renovation or demolition. In the event of construction or maintenance activity which will disturb ACM more aggressive control or removal will be required.

4.1 Action Matrix

The following tables outline the action decisions based on the relationship of assessed factors. Table I applies to friable ACM. Table II applies to non-friable ACM.

Table I Decision Matrix for Friable ACM

	Condition			
Access	**Good**	**Fair**	**Poor**	**Debris**
(A)	Action 5[1]	Action 5[2]	Action 3	Action 1
(B)	Action 7	Action 6[3]	Action 3	Action 1
(C) Visible	Action 7	Action 6	Action 3	Action 2
(C) Not Visible	Action 7	Action 7	Action 4	Action 2
(D)	Action 7	Action 7	Action 7	Action 7

Table II Decision Matrix for Potentially Friable and Non-Friable ACM

	Condition			
Access	**Good**	**Fair**	**Poor**	**Debris**
(A)	Action 7	Action 7[4]	Action 3	Action 1
(B)	Action 7	Action 7	Action 3	Action 1
(C) Visible	Action 7	Action 7	Action 4	Action 2
(C) Not Visible	Action 7	Action 7	Action 4	Action 2
(D)	Action 7	Action 7	Action 7	Action 7

[1] If friable ACM in access (A)/Good condition is not proactively removed Action 7 (Manage) is recommended.
[2] If friable ACM in access (A)/Fair condition is not proactively removed repair is recommended.
[3] If friable ACM in access (B)/Fair condition is likely to be disturbed after repair proactive removal is recommended.
[4] Action 7 is recommended for all non-friable ACM in Fair condition however some clients may wish to repair or take some action primarily for cosmetic reasons

4.2 Action Definitions

The following are the definitions in the Action Matrix Table presented above:

Action Definitions	
Action 1	Clean-Up of ACM Debris Restrict access that is likely to cause a disturbance of the ACM Debris and clean up ACM Debris. Utilize appropriate asbestos precautions.
Action 2	Precautions for Access Which may Disturb ACM Debris Use appropriate means to isolate the debris or to limit entry to the area which may disturb the material. At locations where ACM Debris can remain in place in lieu of removal or clean-up (e.g. Debris on top of ceiling tiles or behind lockable door), Utilize appropriate asbestos precautions to enter the area if this will disturb debris. The precautions will be required until the ACM Debris has been cleaned up.
Action 3	ACM Removal Remove ACM. Utilize asbestos procedures appropriate to the scope of the removal work. Until it is removed, restrict access to the material so it is not disturbed.
Action 4	Precautions for Work Which may Disturb ACM in Poor Condition. Utilize appropriate asbestos precautions if ACM may be disturbed by work on or near ACM. This does not require restricting access to the area, only control of work which may contact or disturb the ACM. Removal is the only viable option if work will disturb ACM.
Action 5	Proactive ACM Removal Remove friable ACM where the presence of friable asbestos in Good condition is not desirable. If friable ACM in Fair condition is not removed, then Repair friable ACM.
Action 6	ACM Repair Repair friable ACM in Fair condition which is not likely to be damaged again or disturbed by normal use of the area or room. Pinchin recommends proactive removal if friable ACM is likely to be damaged or disturbed during normal use of the area or room
Action 7	Asbestos Management Program with Routine Surveillance Implement an Asbestos Management Program, including routine surveillance of ACM. Reassess materials regularly (typically once per year).

Master Template: Methodology Annex A to Appendix I Evaluation Criteria, HAZ, January 10, 2020

APPENDIX II

Location Summary Report

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

LOCATIONS LIST

PINCHIN
1.855.PINCHIN www.pinchin.com

Client:City of Winnipeg Water and Waste Dept **Site: 2230 Main St, Winnipeg, MB**
Building Name: Grit Building
Survey Date: 2011-04-05 **Last Re-Assessment: 2021-06-24**

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Electrical Room	2080	Main	A	New VSF Mortar on cinder block walls is presumed asbestos containing.
2	Control Room	220	Main	A	New VSF Mortar on cinder block walls is presumed asbestos containing.
3	Blower Room	700	Main	A	Mortar on cinder block walls is presumed asbestos containing.
4	Fan Room	700	Main	A	Mortar on cinder block walls is presumed asbestos containing.
5	Grit Tank Room	15000	Main	A	Mortar on cinder block walls is presumed asbestos containing.
6	Truck Loading Area	3000	Main	A	Sample 0009 (Sample 0040 dated Sept 2, 2016 with Lab Reference No. b132942) was confirmed to be non-asbestos however two additional samples are required to confirm negative.
7	Gallery No. 1	690	Basement	A	
8	Abandoned Venturi	250	Basement	A	
9	Stairwell Landing	300	Basement	A	
10	Southeast Basement	1800	Basement	A	
11	Northeast Basement	2100	Basement	A	Mortar on cinder block walls is presumed asbestos containing.
12	West Basement	2300	Basement	A	Duct Supply Air/parging over fibreglass - on corner beads only.
13	Chimney	1400	Basement	A	
14	Fan Room	900	Second	A	
15	Stairway to Primary Clarifier Bldg.	100	Basement	A	
16	Exterior Wall, room no. Exterior	0	Main	A	Roof needs to be tested prior to any renovation or demolition activities. Mortar on brick walls is presumed asbestos containing.

APPENDIX III

Asbestos Material Summary Report/Sample Log

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

PINCHIN
1.855.PINCHIN www.pinchin.com

Client:City of Winnipeg Water and Waste Dept **Site: 2230 Main St, Winnipeg, MB** **Building Name: Grit Building** **Surveyor: Jason Combe** **Survey Date: 2011-04-05**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	S0001	CEILING | N/A | CEILING TILE, LOCATION 1	1,2	A	0	2220	0	0	None Detected	No
Asbestos	S0002	PIPING | PARGING OVER FIBREGLASS | PARGING, FITTING, RWL, LOCATION 5	3,5,6	A	0	0	8	0	Chrysotile	Yes
Asbestos	S0003	PIPING | PARGING OVER FIBREGLASS | PARGING, FITTING, HWR, LOCATION 8	7,8,9,10,11,12,15	A	0	0	194	0	Chrysotile	Yes
Asbestos	S0004	DUCT | PARGING OVER FIBREGLASS | PARGING, DUCT, SA, LOCATION 12	12	A	0	81	0	0	Chrysotile	Yes
Asbestos	S0005	WALL | MASTIC, BLACK | BLACK TAR MASTIC ON BLACK FOAM, EXTERIOR WALL BY BASE (SAMPLED OCTOBER 16, 2014 AS S0007 A TO C)	16	A	0	240	0	0	Chrysotile	Yes
Asbestos	S0006	WALL | PLASTER | PLASTER, EXTERIOR WALL BY TOP (SAMPLED OCTOBER 16, 2014 AS S0008 A TO C)	16	A	0	750	0	0	None Detected	No
Asbestos	S0007	WALL | CAULKING | CAULKING, EXTERIOR WALL, EXT DOOR, EXT. WINDOW (SAMPLED OCTOBER 16, 2014 AS S0009 A TO C)	16	A	300	0	0	0	Chrysotile	Yes
Asbestos	S0008	DUCT | TAR PAPER | BLACK TAR MASTICON FOAM, DUCT, LOC. 11, NORTHEAST, BASEMENT, GRIT BLDG (SAMPLED OCTOBER 16, 2014 AS S0020A)	11	A	0	900	0	0	None Detected	No
Asbestos	V9500	PIPING | SWEAT WRAP PIPE INSULATION |	6	A	10	0	0	0	Presumed Asbestos	Yes
Asbestos	V9500	WALL | MORTAR	1,2,3,4,5,11,14,16	A	0	0	0	100	Presumed Asbestos	Yes
Asbestos	V0000	FLOOR | VINYL SHEET FLOORING |	1,2	A	0	2300	0	0	Non Asbestos	No
Asbestos	V0000	MECHANICAL EQUIPMENT | NOT INSULATED |	4	A	0	0	7	0	Non Asbestos	No
Asbestos	V0000	WALL | CONCRETE (POURED) |	16	A	0	0	0	100	Non Asbestos	No
Asbestos	V0000	WALL | MASONRY	16	A	0	0	0	100	Non Asbestos	No

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

APPENDIX IV

HMIS Data Report

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 4 : Grit Building**
Location: #1 : Electrical Room, Phase: A **Floor: Main** **Room #:** **Area (sqft): 2080**
Survey Date: 2011-04-05 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		N/A	Surface	N/A	C	Y		2000			SF	S0001	None Detected	N.D.	None
Duct	Not Found	NI													
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		2080			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI													
Other	Electrical Panel	Not Insulated													
Piping	Not Found	NI													
Structure	Beam, Deck	Concrete (poured)													
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Concrete (poured)													
Wall		Masonry													

New VSF Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 4 : Grit Building**
Location: #2 : Control Room, Phase: A **Floor: Main** **Room #:** **Area (sqft): 220**
Survey Date: 2011-04-05 **Last Re-Assessment: 2021-06-24**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		220			SF	V0001	None Detected	N.D.	None
Duct	Not Found	NI	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		220			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Concrete (poured)	No Information	NI											
Wall		Masonry	No Information	NI											

New VSF Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 4 : Grit Building**
Location: #3 : Blower Room, Phase: A **Floor: Main** **Room #:** **Area (sqft): 700**
Survey Date: 2011-04-05 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	N/A	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Fibreglass	Straight	Canvas	C	Y									
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		2			EA	V0002	Chrysotile	25-50%	Confirmed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 4 : Grit Building**
Location: #4 : Fan Room, Phase: A **Floor: Main** **Room #:** **Area (sqft): 700**
Survey Date: 2011-04-05 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	N/A	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Fan Unit	Not Insulated	Surface	N/A	B	Y		7			EA	V0000	Non-Asbestos		None
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Concrete (poured)	No Information	NI											
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 4 : Grit Building**
Location: #5 : Grit Tank Room, Phase: A **Floor: Main** **Room #:** **Area (sqft): 15000**
Survey Date: 2011-04-05 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	N/A	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Fibreglass	Straight	Canvas	C	Y									
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		4			EA	S0002	Chrysotile	25-50%	Confirmed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Concrete (poured)	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 4 : Grit Building**
Location: #6 : Truck Loading Area, Phase: A **Floor: Main** **Room #:** **Area (sqft): 3000**
Survey Date: 2011-04-05 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
		Sweat Wrap pipe insulation													
Ceiling	N/A	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Fibreglass	Straight	Canvas	C	Y									
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		2			EA	V0002	Chrysotile	25-50%	Confirmed Asbestos(F)
Piping	Rain Water Leader	Sweat Wrap pipe insulation	Straight	Canvas	A	Y		10			LF	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Sample 0009 (Sample 0040 dated Sept 2, 2016 with Lab Reference No. b132942) was confirmed to be non-asbestos however two additional samples are required to confirm negative.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 4 : Grit Building**
Location: #7 : Gallery No. 1, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 690**
Survey Date: 2011-04-05 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	N/A	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		4			EA	V0003	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		3			EA	V0003	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 4 : Grit Building**
Location: #8 : Abandoned Venturi, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 250**
Survey Date: 2011-04-05 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	N/A	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		7			EA	V0003	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		6			EA	S0003	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 4 : Grit Building**
Location: #9 : Stairwell Landing, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 300**
Survey Date: 2011-04-05 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	N/A	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		4			EA	V0003	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		5			EA	V0003	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 4 : Grit Building**
Location: #10 : Southeast Basement, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 1800**
Survey Date: 2011-04-05 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	N/A	NI	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		5			EA	V0003	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		20			EA	V0003	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 4 : Grit Building**
Location: #11 : Northeast Basement, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 2100**
Survey Date: 2011-04-05 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	N/A	NI	No Information	NI											
Duct	Supply Air	Tar Paper			C	Y				900	SF	S0008	None Detected	N.D.	None
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Mechanical Equipment	Exchanger	Not Insulated	No Information	NI											
Mechanical Equipment		Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping		Parging over Fibreglass	Fitting	Canvas	C	Y		17			EA	V0003	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping		Fibreglass	Straight	Canvas	C	Y									
Piping		Fibreglass	Straight	Canvas	C	Y									
Piping		Parging over Fibreglass	Fitting	Canvas	C	Y		17			EA	V0003	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		5			EA	V0003	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		8			EA	V0003	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Concrete (poured)	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 4 : Grit Building**
Location: #12 : West Basement, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 2300**
Survey Date: 2011-04-05 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	N/A	NI	No Information	NI											
Duct	Supply Air	Parging over Fibreglass	Surface	Canvas	C	Y		81			SF	S0004	Chrysotile	50-75%	Confirmed Asbestos(F)
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		25			EA	V0003	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		54			EA	V0003	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Rain Water Leader	Fibreglass	Fitting	Canvas	C	Y									
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		3			EA	V0003	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Duct Supply Air/parging over fibreglass - on corner beads only.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 4 : Grit Building**
Location: #13 : Chimney, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 1400**
Survey Date: 2011-04-05 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Not Found	NI	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 4 : Grit Building**
Location: #14 : Fan Room, Phase: A **Floor: Second** **Room #:** **Area (sqft): 900**
Survey Date: 2011-04-05 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	N/A	NI	No Information	NI											
Duct	Supply Air	Fibreglass	Surface	Canvas	C	Y									
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Masonry													
Wall		Mortar						100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 4 : Grit Building**

Location: #15 : Stairway to Primary Clarifier Bldg., Phase: A **Floor: Basement** **Room #:** **Area (sqft): 100**

Survey Date: 2011-04-05 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	None Found													
Duct	Supply Air	Not Insulated													
Floor	All	Concrete (poured)													
Mechanical Equipment	Not Found	None Found													
Piping	Heating Water Return	Fibreglass	Straight	Canvas	B	Y									
Piping	Heating Water Return	Parging Cement	Fitting	Canvas	B	Y		6			EA	V0003	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	B	Y									
Piping	Heating Water Supply	Parging Cement	Fitting	Canvas	B	Y		5			EA	V0003	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	All	Concrete (poured)													
Wall	All	Concrete (poured)													

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 4 : Grit Building**
Location: #16 : Exterior Wall, Phase: A **Floor: Main** **Room #: Exterior** **Area (sqft): 0**
Survey Date: 2011-04-05 **Last Re-Assessment: 2021-06-24**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Wall	All	Mortar	Surface	Quarry tile	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	Exterior	Concrete (poured)	Surface	N/A	A	Y		100			%	V0000	Non-Asbestos		None
Wall	Exterior	Plaster	Surface	N/A	A	Y		750			SF	S0006	None Detected	N.D.	None
Wall	Exterior	Masonry	Surface		A	Y		100			%	V0000	Non-Asbestos		None
Wall	Exterior	Mastic, Black	Base	N/A	A	Y		240			SF	S0005	Chrysotile	1-5%	Confirmed Asbestos(NF)
Wall	Exterior	Caulking	Surface	N/A	A	Y		300			LF	S0007	Chrysotile	5-10%	Confirmed Asbestos(NF)
Wall		Mortar						100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Roof needs to be tested prior to any renovation or demolition activities. Mortar on brick walls is presumed asbestos containing.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

FINAL

Asbestos Reassessment

McPhillips Street Pumping Station
360 McPhillips Street,
Winnipeg, Manitoba

Prepared for:

City of Winnipeg Water and Waste Department
110-1199 Pacific Avenue
Winnipeg, Manitoba R3E 3S8

October 14, 2021

Pinchin File: 289439

Issued to:	**City of Winnipeg Water and Waste Department**
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EXECUTIVE SUMMARY

City of Winnipeg Water and Waste Department (Client) retained Pinchin Ltd. (Pinchin) to conduct an asbestos building materials reassessment of McPhillips Street Pumping Station located at 360 McPhillips Street, Winnipeg, Manitoba. The reassessment was performed on June 29, 2021.

The objective of the reassessment was to evaluate the condition and quantity of previously reported asbestos-containing materials (ACM), and develop corrective action plans as required for the purposes of long-term management. The results of this assessment are not intended for construction, renovation, demolition or project tendering purposes.

HMIS has been updated online. Three additional bulk samples of vinyl floor tiles were collected from within the Pump Building, Electrical Room Location No.6. Asbestos was detected.

SUMMARY OF FINDINGS

Asbestos-containing materials (ACM) are present as follows:

- Parging cement, containing asbestos is present on pipe fittings within the Pump Building, Chlorine Building, and Old Pump Building. Parging cement is friable and is in GOOD condition except for minor amounts of damage rated in FAIR and POOR condition.
- Sweat wrap containing asbestos is present on straight sections of the rainwater leader pipes throughout Pump Building A and Chlorine Building. Sweat wrap is non-friable and is in GOOD condition;
- Asbestos-containing magnesia block is present as insulation on exhaust ducting within the Pump Building, Location No.1. Magnesia block is a friable material. Is jacketed with metal and is in GOOD condition.
- Asbestos-containing ceiling tiles are present in the Shop of the Old Pump Building (Location No. 22). The acoustic ceiling tiles are potentially friable and remain concealed above the metal ceiling tiles.
- Asbestos-containing transite cement boards are present throughout the Old Pump Building. Transite cement is non-friable and is in GOOD condition.
- 8 LF of asbestos-containing transite cement pipe debris is present on the ground outside of the Garage Building F.
- Asbestos-containing black tar mastic is present on the exterior lower wall finish of the Pump and Chlorine Buildings. Tar mastic is non-friable and is in GOOD condition

- Asbestos-containing 12” x 12” beige vinyl floor tiles are present within the Pump Building, Electrical Room, Location No.6. Vinyl floor tiles are non-friable and were in GOOD condition.
- Drywall (gypsum board) and joint compound suspect to contain asbestos is present in the Old Pump Building and Garage; Drywall joint compound is potentially friable and is in GOOD condition
- Loose fill vermiculite has been confirmed present within the Old Pump Building and is presumed present throughout the Storage Shed, Garage, and Chlorine Buildings. The Pump Building does not contain vermiculite.
- Mortar present on hollow core walls throughout the Pump, Garage, and Storage Shed buildings is presumed to contain asbestos. Mortar s potentially friable and is in GOOD condition; and
- Setting compounds on ceramic tile finishes within the Pump Building are presumed to contain asbestos. Setting compounds are potentially friable and are in GOOD condition.

SUMMARY OF RECOMMENDATIONS

The following is a summary of significant recommendations; refer to the body of the report for detailed recommendations.

1. The following items require immediate remedial action:
    a. Remove and dispose of 8 LF of transite cement pipe debris present on the ground outside of Garage Building F following Low Risk procedures.
    b. Repair following Moderate Risk procedures damaged/exposed parging cement on 1 domestic water fitting rated in FAIR condition within the Old Pump Building, Furnace Room Location No.21.
    c. Remove following Moderate Risk Glovebag procedures damaged/exposed parging cement on 1 domestic water fitting rated in POOR condition within the Old Pump Building, Furnace Room Location No.21.
    d. Repair following Moderate Risk procedures damaged/exposed parging cement on 1 fitting of the rainwater leader system within the Chlorine Building, Chlorinator Room, Location No.9

2. Perform a reassessment of asbestos materials on an annual basis.
3. Prior to renovations or demolition, perform a pre-construction assessment to identify any hazardous materials that may be disturbed by the work.
4. Follow appropriate safe work procedures when handling or disturbing asbestos.

This Executive Summary is subject to the same standard limitations as contained in the report and must be read in conjunction with the entire report.

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APPENDICES

1.0 INTRODUCTION AND SCOPE

City of Winnipeg Water and Waste Department (Client) retained Pinchin Ltd. (Pinchin) to conduct an asbestos building materials reassessment of McPhillips Street Pumping Station located at 360 McPhillips Street, Winnipeg, Manitoba. The following Buildings were included in our reassessment:

• Chlorine Building	• Pump Building; and
• Garage Building	• Storage Shed Building.
• Old Pump Building	

Pinchin performed the reassessment on June 29, 2021. The surveyor was accompanied by City of Winnipeg Water and Waste representatives during the reassessment. The assessed area was occupied at the time of the assessment.

The objectives of the reassessment were to document the locations, quantities and conditions of previously identified asbestos containing building materials and develop corrective action plans as required. This reassessment is only to be used for the purposes of long-term management and routine maintenance. The results of this reassessment are not to be used for construction, renovation, demolition or project tendering purposes.

1.1 Scope of Assessment

The objective of the reassessment was to evaluate the condition and quantity of previously reported asbestos-containing materials (ACM), and develop corrective action plans as required.

Additional objectives included the following:

- Documentation of any asbestos abatement that was performed since the last reassessment; and
- Additional sampling to delineate previously presumed asbestos-containing materials.

Please refer to Appendix II for a detailed description of the methodology used for this assessment.

2.0 METHODOLOGY

Pinchin conducted an inspection of previously identified asbestos-containing materials (ACM) to evaluate the current condition of all accessible identified in the most recent assessment. The surveyor made reference to any existing assessment or abatement reports (as provided by the Client).

As per the original scope of work, concealed locations such as ceiling spaces above solid ceilings, shafts and chases were accessed via existing access panels. Our investigation did not include demolition of drywall or plaster walls to view concealed conditions. Structural items or exterior building finishes were not removed to determine the presence of concealed materials.

For further details on the methodology including test methods, refer to Appendix II.

3.0 BACKGROUND INFORMATION

3.1 Existing Reports and Summary of Asbestos Abatement

3.1.1 Review of Previous Reports

The reassessment was based on information gathered from the original comprehensive assessment report completed by Pinchin. The original assessment report for the McPhillips Pumping Station was dated March 6, 2007. The results of the original report and subsequent survey update reports were reviewed prior to completing the reassessment

3.1.2 Summary of Asbestos Abatement since the Previous Assessment

Abatement work has been completed on site since the last assessment. Based on a review of the above noted abatement reports, and observations made during the reassessment, the following abatement work has been conducted, since completion of the previous report:

- Pump Building, Basement Location No.1; 240 Linear feet of Sweatwrap, and parging cement from 41 fittings was removed; and
- Pump Building, Electrical Room Location No.6; 10 linear feet of Sweatwrap was removed.

4.0 FINDINGS

The following section summarizes the findings of the reassessment and provides a general description of the asbestos-containing materials (ACM) identified and their locations.

For details on approximate quantities, condition, friability and locations of asbestos materials; refer to the Asbestos Material Summary Report and HMIS Data Report in Appendix IV and V.

Appendix I presents the asbestos bulk sample analytical results.

4.1 Pipe Insulation

Parging cement, containing asbestos is present on pipe fittings of the City Water Supply, Rainwater Leader, Domestic Water, Chilled Water and Heating Water pipe systems within the Pump Building, Chlorine Building, and Old Pump Building. Parging cement is a friable material which was jacketed with canvas. The parging cement was generally in GOOD condition with the exception of minor amounts rated in FAIR and POOR condition.

Sweatwrap (brown layered paper) containing asbestos in the tar paper layer, is present on straight sections of the City Water Supply, Rainwater leader pipes in the Pump Building and Chlorine Building (Location Nos. 1, 2, 4, 7, 8, 9, and 11). Since the asbestos is present in the tar paper layer only it is a non-friable material. The Sweatwrap was jacketed with canvas and in GOOD condition.

The following damage was noted during the 2021 update:

Location	Quantity and Condition of Damage
Old Pump Building, Furnace Room (Location No. 21).	1 fitting insulated with parging cement rated in FAIR condition on the domestic water system. 1 fitting insulated with parging cement rated in POOR condition on the domestic water system.
Chlorine Building, Chlorinator Room (Location No. 9).	1 fitting insulated with parging cement rated in FAIR condition on the rainwater leader system.

Damaged/exposed parging cement within the Old Pump Building Furnace Room Location No.21

Damaged/exposed parging cement within the Chlorine Building, Chlorinator Room, Location No.9

4.2 Duct Insulation and Mastic

Preformed block insulation containing chrysotile and amosite asbestos is present on the generator exhaust duct in the Basement Pump Building (Location No. 1). The preformed block insulation is a friable material which was jacketed with metal and is in GOOD condition.

4.3 Vermiculite

Loose fill vermiculite has been confirmed present within the Old Pump Building within Location No.'s 30 and 31 and is presumed present within the remainder of the building and throughout the Storage Shed, Garage, and Chlorine Buildings. Vermiculite is a friable material. Vermiculite debris was not present. The Pump Building does not contain vermiculite

4.4 Acoustic Ceiling Tiles

Asbestos-containing ceiling tiles located above the metal ceiling tiles in the Old Pump Building - Shop (Location No. 22) remain present and are not accessible.

4.5 Drywall Joint Compound

Drywall (gypsum board) and joint compound suspect to contain asbestos is present in the Old Pump Building and Garage. Drywall joint compound is potentially friable and is in GOOD condition.

4.6 Asbestos Cement Products (Transite)

Asbestos-containing transite boards are present as ceiling and wall finishes in the Old Pump Building Washroom, Dispatch, and Vestibule (Location Nos. 13, 16, and 17). Transite is a non-friable material that has been maintained in GOOD condition.

Eight linear feet of transite cement debris is present on the ground at the exterior of the Garage (Building F).

Asbestos-containing transite cement pipe debris exterior of Garage Building F..

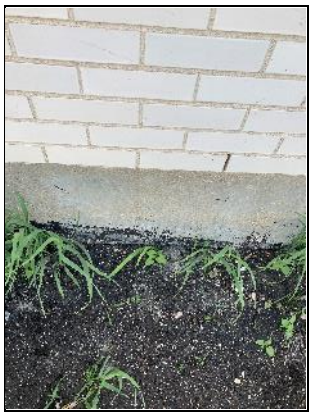
4.7 Vinyl Floor Tiles, Baseboard, and Stair Flooring

Vinyl floor tiles present within the Pump Building Electrical Room, Location No.6 were confirmed to contain asbestos (Samples 0002A-C). Vinyl floor tiles are non-friable and in GOOD condition.

Asbestos-containing vinyl floor tiles within Electrical Room Location No.6.

4.8 Sealants, Caulking, and Putty

Asbestos-containing black tar mastic is applied as a sealant on the exterior lower wall finish of the Pump Building (Location No. 42) and Chlorine Building (Location No. 43). Mastic is a non-friable material which is in GOOD condition.



Asbestos-containing tar mastic in GOOD condition.

4.9 Roofing Products

No visual inspection or sampling was conducted at this location. Destructive testing will be required prior to any renovation or demolition activities.

4.10 Other Building Materials

Mortar present on hollow core walls throughout the Pump, Garage, and Storage Shed buildings is presumed to contain asbestos. Mortar s potentially friable and is in GOOD condition. Mortar present on masonry walls within the Old Pump and Chlorine Buildings has been determined to be non-asbestos.

Setting compounds on ceramic tile finishes within the Pump Building are presumed to contain asbestos. Setting compounds are potentially friable and are in GOOD condition.

4.11 Excluded Asbestos Materials

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

- Roofing felts and tar, mastics;
- Floor levelling compound;
- Ceramic tile setting compound;
- Elevator and lift brakes;
- Electrical components;
- Moulded plastic components (laboratory bench tops);
- Refractory materials and insulations in boilers, incinerators and stacks;
- Insulation under metal clad boilers and vessels;
- Mechanical packing, ropes and gaskets;
- Vermiculite;
- Adhesives and duct mastics;
- Caulking and putties;
- Fibre-reinforced paints and coatings;
- Paper products;
- Soffit and fascia boards;
- Fire resistant doors;
- Metal clad finishes (Galbestos);
- Stucco, plaster or other cementitious parge coatings
- Vibration dampers on HVAC equipment;
- Terrazzo;
- Ropes and gaskets in cast-iron bell and spigot joints; and
- Sealants on pipe threads.

5.0 RECOMMENDATIONS

5.1 General

Perform a detailed intrusive assessment prior to building renovation or demolition operations. The assessment should include; destructive testing (e.g. coring and/or removal of building finishes and components), sampling of other hazardous materials (lead, mercury, PCBs, mould, etc.), and materials not tested in this study (e.g. roofing materials, caulking, mastics).

5.2 Remedial Work

The following remedial work is recommended.

Material, Quantity & Condition	Location Name (Location #)	Recommended Procedure
Parging cement, Pipe insulation 1 fitting in FAIR condition	Pump Building Furnace Room, Location No.21	Repair in accordance with Moderate Risk Procedures
Parging cement, Pipe insulation 1 fitting in POOR condition	Pump Building Furnace Room, Location No.21	Remove in accordance with Moderate Risk Glovebag Procedures
Parging cement, Pipe insulation, 1 fitting in FAIR condition	Chlorine Building, Chlorinator Room, Location No.9	Repair in accordance with Moderate Risk Procedures
Transite cement pipe, 8 LF of Debris	Garage exterior of building on ground	Remove in accordance with Low Risk Procedures.

5.3 On-going Management and Maintenance

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

Perform a reassessment of asbestos materials on an annual basis.

Monitor the condition of asbestos by conducting a reassessment on a regular basis.

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

Update the asbestos inventory report for the building upon completion of any abatement of ACM.

6.0 TERMS AND LIMITATIONS

This work was performed subject to the Terms and Limitations presented or referenced in the proposal for this project.

Information provided by Pinchin is intended for Client use only. Pinchin will not provide results or information to any party unless disclosure by Pinchin is required by law. Any use by a third party of reports or documents authored by Pinchin or any reliance by a third party on or decisions made by a third party based on the findings described in said documents, is the sole responsibility of such third parties. Pinchin accepts no responsibility for damages suffered by any third party as a result of decisions made or actions conducted. No other warranties are implied or expressed.

7.0 REFERENCES

The following legislation and documents were referenced in completing the assessment and this report:

1. Workplace Safety and Health Act W210.
2. Workplace Safety and Health Hazard Regulation (Manitoba Regulation 217/2006), under the Workplace Safety and Health Act.
3. Manitoba Regulation MR 474/88, Manitoba PCB Regulation made under The Dangerous Goods Act.
4. Guide for Asbestos Management – Safe Work Manitoba.
5. Guideline Managing Demolition Debris Containing Hazardous Materials – Environmental Enforcement and Compliance Branch – Manitoba Conservation and Climate
6. Canada Occupational Health and Safety Regulation, SOR/86-304.
7. Consolidated Transportation of Dangerous Goods Regulations, including Amendment SOR/2019-101, Transportation of Dangerous Goods Act.

APPENDIX I

Asbestos Analytical Certificates

Your Project #: 289439
Site Location: SEWPCC AND MCPHILLIPS
Your C.O.C. #: n/a

Attention: Ken Brydges

Pinchin Ltd
54 Terracon Pl
Winnipeg, MB
CANADA R2J 4G7

Report Date: 2021/07/20
Report #: R6727311
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1J5261
Received: 2021/07/14, 09:44

Sample Matrix: Solid
Samples Received: 9

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Asbestos by PLM - 0.5 RDL (1)	9	N/A	N/A	COR3SOP-00002	EPA 600R-93/116

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Bureau Veritas Laboratories' Asbestos Laboratory is accredited by NVLAP for bulk asbestos analysis by polarized light microscopy, NVLAP Code 600136-0.

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Bureau Veritas Laboratories' scope of accreditation includes EPA-600/M4-82-020: "Interim Method for the Determination of Asbestos in Bulk Insulation Samples" and EPA-600/R-93/116: "Method for the Determination of Asbestos in Bulk Building Materials".
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) P.O.B. - Percent of Bulk

When Asbestos data is reported with other data, this report contains data that are not covered by the NVLAP accreditation.

Your Project #: 289439
Site Location: SEWPCC AND MCPHILLIPS
Your C.O.C. #: n/a

Attention: Ken Brydges

Pinchin Ltd
54 Terracon Pl
Winnipeg, MB
CANADA R2J 4G7

Report Date: 2021/07/20
Report #: R6727311
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1J5261
Received: 2021/07/14, 09:44

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Antonella Brasil, Senior Project Manager
Email: Antonella.Brasil@bureauveritas.com
Phone# (905)817-5817
==========
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BV Labs Job #: C1J5261
Report Date: 2021/07/20

Pinchin Ltd
Client Project #: 289439
Site Location: SEWPCC AND MCPHILLIPS
Sampler Initials: KB

Asbestos Analytical Results

EPA/600R-93/116 by Polarized Light Microscopy

0001 A-SEWPCC - ADMIN -LOC.11 - DRYWALL JOINT COMPOUND CEILNG

BV Labs ID: QCB406 Date Analyzed: 2021/07/19

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous white drywall joint compound	Not Detected		Non-Fibrous

0001 B-SEWPCC - ADMIN -LOC.19 - DRYWALL JOINT COMPOUND WALL

BV Labs ID: QCB407 Date Analyzed: 2021/07/19

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Non-homogeneous white drywall joint compound	**Chrysotile** 2%		Non-Fibrous

0001 C-SEWPCC - ADMIN -LOC.11 - DRYWALL JOINT COMPOUND CEILNG

BV Labs ID: QCB408 Date Analyzed: 2021/07/19

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1			N/A		
	Comment:	Not Analyzed - Positive Stop			

0002 A-MCPHILLIPS - PUMP BUILDING A- LOC.6 - VINYL FLOOR TILES 12*2 BEIGE

BV Labs ID: QCB409 Date Analyzed: 2021/07/19

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous beige vinyl floor tile	**Chrysotile** 3%		Non-Fibrous

The limit of quantitation is 0.50%, although asbestos may be qualitatively detected at concentrations less than 0.50%. Samples for which asbestos is detected at <0.50% are reported as trace, “<0.50%”. “Not Detected” indicates that no asbestos fibres were observed.

Calibrated Visual Estimate (%)
Date Format : yyyy/mm/dd

BV Labs Job #: C1J5261
Report Date: 2021/07/20

Pinchin Ltd
Client Project #: 289439
Site Location: SEWPCC AND MCPHILLIPS
Sampler Initials: KB

Asbestos Analytical Results

EPA/600R-93/116 by Polarized Light Microscopy

0002 B-MCPHILLIPS - PUMP BUILDING A- LOC.6 - VINYL FLOOR TILES 12*2 BEIGE

BV Labs ID: QCB410 Date Analyzed: 2021/07/19

	P.O.B	Sample Morphology	Asbestos	Other Fibres		Particulate
Layer 1			N/A			

Comment: Not Analyzed - Positive Stop

0002 C-MCPHILLIPS - PUMP BUILDING A- LOC.6 - VINYL FLOOR TILES 12*2 BEIGE

BV Labs ID: QCB411 Date Analyzed: 2021/07/19

	P.O.B	Sample Morphology	Asbestos	Other Fibres		Particulate
Layer 1			N/A			

Comment: Not Analyzed - Positive Stop

0003 A-SEWPCC - AHU ROOM ADJACENT LOC.66 - PARGING CEMENT FTG CW

BV Labs ID: QCB412 Date Analyzed: 2021/07/19

	P.O.B	Sample Morphology	Asbestos	Other Fibres		Particulate
Layer 1	100	Homogeneous grey parging cement	Not Detected	Cellulose	40%	Non-Fibrous
				Fibrous Glass	20%	

The limit of quantitation is 0.50%, although asbestos may be qualitatively detected at concentrations less than 0.50%. Samples for which asbestos is detected at <0.50% are reported as trace, "<0.50%". "Not Detected" indicates that no asbestos fibres were observed.

Calibrated Visual Estimate (%)
Date Format : yyyy/mm/dd

BV Labs Job #: C1J5261
Report Date: 2021/07/20

Pinchin Ltd
Client Project #: 289439
Site Location: SEWPCC AND MCPHILLIPS
Sampler Initials: KB

Asbestos Analytical Results

EPA/600R-93/116 by Polarized Light Microscopy

0003 B-SEWPCC - AHU ROOM ADJACENT LOC.66 - PARGING CEMENT FTG CW

BV Labs ID: QCB413 Date Analyzed: 2021/07/19

	P.O.B	Sample Morphology	Asbestos	Other Fibres		Particulate
Layer 1	100	Homogeneous grey parging cement	Not Detected	Cellulose	40%	Non-Fibrous
				Fibrous Glass	20%	

0003 C-SEWPCC - AHU ROOM ADJACENT LOC.66 - PARGING CEMENT FTG HWH

BV Labs ID: QCB414 Date Analyzed: 2021/07/19

	P.O.B	Sample Morphology	Asbestos	Other Fibres		Particulate
Layer 1	100	Homogeneous grey parging cement	Not Detected	Cellulose	40%	Non-Fibrous
				Fibrous Glass	20%	

The limit of quantitation is 0.50%, although asbestos may be qualitatively detected at concentrations less than 0.50%. Samples for which asbestos is detected at <0.50% are reported as trace, "<0.50%". "Not Detected" indicates that no asbestos fibres were observed.

Calibrated Visual Estimate (%)
Date Format : yyyy/mm/dd

BV Labs Job #: C1J5261
Report Date: 2021/07/20

Pinchin Ltd
Client Project #: 289439
Site Location: SEWPCC AND MCPHILLIPS
Sampler Initials: KB

GENERAL COMMENTS

Since vinyl floor tiles may contain very fine asbestos fibres that are below the resolution limits of the PLM, the estimated percentage should be treated as a mininum value only. Quantitative analysis by Transmission Electron Microscopy is recommended if an improved estimate is required.
Samples can contain very fine asbestos fibres that are below the resolution limits of the PLM. Transmission Electron Microscopy (TEM) is recommended for confirmation of None Detected results.

Results relate only to the items tested.

Bureau Veritas Laboratories 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

BV Labs Job #: C1J5261
Report Date: 2021/07/20

Pinchin Ltd
Client Project #: 289439
Site Location: SEWPCC AND MCPHILLIPS
Sampler Initials: KB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Jon Delos Santos, Laboratory Supervisor

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Bureau Veritas Laboratories 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

APPENDIX II
Methodology

1.0 METHODOLOGY

Pinchin conducts an inspection of previously identified asbestos-containing materials (ACM) to evaluate the current condition of all accessible identified in the most recent assessment. The surveyor makes reference to any existing assessment or abatement reports (as provided by the Client).

1.1 Limitations on Scope

The reassessment excludes the following:

- Articles belonging to the owner, tenant or occupant (e.g. stored items, furniture, appliances, etc.);
- Underground materials or equipment (e.g. vessels, drums, underground storage tanks, pipes, etc.);
- Building envelope, structural components, inaccessible or concealed materials or other items where sampling may cause consequential damage to the property;
- Energized systems (e.g. internal boiler components, elevators, mechanical or electrical components);
- Controlled products (e.g. stored chemicals, operational or process-related substances); and
- Materials not typically associated with construction (e.g. settled dust, spills, residual contamination from prior spills, etc.).

As per the original scope of work, concealed locations such as ceiling spaces above solid ceilings, shafts and chases are accessed via existing access panels. Our investigation does not include demolition of drywall or plaster walls to view concealed conditions. Structural items or exterior building finishes are not removed to determine the presence of concealed materials.

1.2 Methodology

Existing sampling data is reviewed and relied upon. If sampling is conducted, samples are collected at a rate that is in compliance with the requirements of local regulations and guidelines. The sampling strategy is also based on known ban dates and phase out dates of the use of asbestos; sampling of certain building materials is not conducted after specific construction dates. In addition, to be conservative, several years past these dates are added to account for some uncertainty in the exact start / finish date of construction and associated usage of ACM.

Materials listed as exclusions in the previous reports remain as exclusions. Sampling, assessment or verification of excluded materials was not conducted.

If present, the following materials are presumed to be asbestos-containing and are best sampled immediately prior to commencing renovation/disturbance:

- Roofing felts and tar, mastics;
- Floor levelling compound;
- Ceramic tile setting compound;
- Elevator and lift brakes;
- Electrical components or wiring within control centers, breakers, motors or lights, insulation on wiring;
- Moulded plastic components (laboratory bench tops);
- Refractory materials and insulations in boilers, incinerators and stacks;
- Insulation under metal clad boilers and vessels;
- Mechanical packing, ropes and gaskets;
- Vermiculite;
- Adhesives and duct mastics;
- Caulking and putties;
- Fibre-reinforced paints and coatings;
- Paper products;
- Soffit and fascia boards;
- Fire resistant doors;
- Metal clad finishes;
- Exterior cladding;
- Stucco, plaster or other cementitious parge coatings; and
- Vibration dampers on HVAC equipment.

2.0 ANALYSIS AND IDENTIFICATION OF ASBESTOS MATERIALS

Pinchin relies on the analytical results of prior surveys. Asbestos bulk samples (if required) are analyzed at an independent NVLAP accredited laboratory. Preliminary identification of asbestos fibres is made using polarized light microscopy, with confirmation of the presence and type of asbestos made by dispersion staining optical microscopy. The analysis is performed in accordance with Test Method EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials, June 1993. All independent laboratories used by Pinchin, including our laboratory, are certified under the National Voluntary Laboratory Accreditation Program (NVLAP) to perform asbestos analysis of bulk samples.

Analytical results are compared to the following criteria:

Jurisdiction	Friable	Non-Friable
Manitoba	0.1%[1]	1%
Federal	1%	1%

The asbestos analysis is completed using a stop positive approach. Only one result meeting the above regulated criteria is required to determine that a material is asbestos-containing, but all samples must be analyzed to conclusively determine that a material is non-asbestos. The laboratory stops analyzing samples from a homogeneous material once a result equal to or greater than the regulated criteria is detected in any of the samples of that material. All samples of a homogeneous material are analyzed if no asbestos is detected. In some cases, all samples are analyzed in the sample set regardless of result.

Where building materials are described in the report as “non-asbestos” or “does not contain asbestos”, this means that either no asbestos was detected by the analytical method utilized in any of the multiple samples or, if detected, it is below the lower limit of an asbestos-containing material in the applicable regulation.

Asbestos materials are evaluated in order to make recommendations regarding remedial work. The priority for remedial action is based on several factors:

- Friability (friable or non-friable);
- Condition (good, fair, poor, debris);
- Accessibility (ranking from accessible to all building users to inaccessible);
- Visibility (whether the material is obscured by other building components); and
- Efficiency of the work (for example, if damaged ACM is being removed in an area, it may be most practical to remove all ACM in the area even if it is in good condition).

For a complete description of the Evaluation Criteria and Basis of Recommendations, refer to Annex A.

Template: Methodology for Asbestos Re-Assessment, HAZ, January 10, 2020

METHODOLOGY ANNEX A EVALUATION CRITERIA

1.0 EVALUATION CRITERIA AND BASIS OF RECOMMENDATIONS

The detailed asbestos assessment provides information regarding the location, condition, accessibility and friability of the asbestos-containing materials (ACM). In order to make recommendations for compliance with current regulations, Pinchin developed the following criteria.

2.0 EVALUATION OF CONDITION

2.1 Friable Sprayed or Trowelled Fireproofing, Thermal Insulation and Texture Finishes (Surfacing Materials)

To evaluate the condition of ACM sprayed or trowelled on fireproofing, sprayed or trowelled thermal insulation (non-mechanical), or texture, decorative or acoustic finishes, the following criteria are applied:

Good	Surface of material shows no significant signs of damage, deterioration or delamination. Good condition includes unencapsulated or unpainted fireproofing or texture finishes, where no or limited delamination or damage is observed, or encapsulated fireproofing or texture finishes where the encapsulant or paint has been applied after the damage or fallout occurred.
Poor	A sprayed material that shows signs of significant damage or is significantly delaminating or deteriorating. This may be limited to surface delamination or some portion of the substrate may be exposed.

In Locations where damage exists in isolated areas, both good and poor condition may be applicable. The extent of each condition will be recorded. Fair condition is not utilized in the evaluation of ACM sprayed or trowelled fireproofing, sprayed or trowelled thermal insulation (non-mechanical), or texture, decorative or acoustic finishes.

The evaluation of the above products above ceilings may be limited by the number of observations and by building components such as ducts or full height walls that obstruct the above ceiling observations.

2.2 Friable Mechanical or Thermal System Insulation (TSI)

To evaluate the condition of mechanical insulation on vessels, boilers, breeching, ducts, pipes, fan units, equipment etc. the following criteria are applied:

Good	Insulation is completely covered in jacketing and exhibits no evidence of damage or deterioration. No insulation is exposed. Includes conditions where the jacketing has minor damage (i.e. scuffs or stains), but the jacketing is not penetrated.
Fair	Minor penetrating damage to jacketed insulation (cuts, tears, nicks, deterioration or delamination) or undamaged insulation that has never been jacketed. Insulation is exposed but not showing surface disintegration. The extent of missing insulation ranges from minor to none. Damage can be repaired.
Poor	Original insulation jacket is missing, damaged, deteriorated or delaminated. Insulation is exposed and significant areas have been dislodged. Damage cannot be readily repaired. Includes components where insulation may have been removed incompletely.

The evaluation of mechanical insulation may be limited by the number of observations made and building components such as ducts or full height walls that obstruct observations. It is often not possible to observe each foot of mechanical insulation from all angles.

2.3 Potentially Friable Materials and Miscellaneous Friable Materials

Potentially friable ACM are products that are basically non-friable while in place but have the potential to generate friable dust upon removal or if significantly disturbed without appropriate procedures. These products may become friable if damaged. Potentially friable materials include materials such as acoustic ceiling tiles and plaster. To evaluate the condition of potentially friable materials, the following criteria are applied:

Good	No significant damage or deterioration. Still serving its intended use as a building material or finish.
Fair	Showing signs of some cracking or breakage, but is not deteriorating (e.g. cracked plaster, broken but in place ceiling tile, missing tile or section of plaster etc.). The condition is such that it is still serving its intended use as a building material or finish but may require repair for mainly cosmetic purposes.
Poor	Significant deterioration or breaking apart of the material. Material has deteriorated to the point it is not serving its intended use as building material or finish. Material has deteriorated to a point it has become friable. Normally potentially friable ACM in Poor condition is not repairable and requires at least localized removal and replacement.

2.4 Non-Friable Materials

Non-friable ACM cover a wide range of products with a wide variation in their tendency to release dust or asbestos fibres to the air. Many of these materials, (particularly where the matrix is an unweathered bitumen, asphalt or tar material) do not release fibres except in very unusual circumstances or during significant disturbance (e.g. use of abrasive power tools). Others with a cementitious matrix (asbestos-cement products) can more readily release dust due to abrasion, demolition, weathering, etc. The potential for asbestos release from non-friable ACM is always lower than from friable ACM. To evaluate the condition of non-friable Materials, the following criteria are applied:

Good	No significant damage or deterioration. Still serving its intended use as a building material or finish.
Fair	Showing signs of some cracking or breakage but is not deteriorating (e.g. cracked vinyl floor tile, missing piece of tile or transite, etc.). The condition is such that it is still serving its intended use as a building material or finish but may require repair for mainly cosmetic purposes.
Poor	Significant deterioration or breaking apart of the material to the point at which it cannot be repaired, and it will require at least local removal. Material has deteriorated to the point it is not serving its intended use as building material or finish. Material may have deteriorated to a point where traffic or disturbance may cause it to become friable.

2.5 Evaluation of ACM Debris

The identification of the exact location or presence of debris on the top of ceiling tiles is limited by the number of observations made and the presence of building components such as ducts or full height walls that obstruct observations.

The presence of fallen or dislodged ACM is noted separately from the ACM source and is referred to as Debris. Debris may be friable if from a friable ACM source or a badly deteriorated non-friable ACM source. Debris may also be non-friable (such as fallen pieces of transite sheet or mastic fittings, or broken, dislodged floor tiles).

Debris	Debris may be friable or non-friable but is always identified as debris.

2.6 Evaluation of Presumed Asbestos-Containing Material (PACM)

Presumed asbestos-containing materials (PACM), are building materials that may contain asbestos but were not sampled or analyzed due to inaccessibility or the need to perform destructive testing to obtain a reasonable sample set. Evaluation of these materials is based on the assumption that these PACM are asbestos-containing.

A list of PACM is provided in the report and they are generally not included in the detailed room by room reports. Typically, they are excluded because they are inaccessible or present in very small quantities. If PACM are evaluated, Pinchin uses the criteria that correspond with the type (and friability) of the material listed above.

3.0 EVALUATION OF ACCESSIBILITY

The accessibility of building materials known or suspected of being ACM is rated according to the following criteria:

Access (A)	Common areas of the building within reach of all building users (approximately 8 '-9' from floor or standard ceiling height). Includes other areas where occupant activities may result in disturbance of material that is not normally within reach from floor level, but may be disturbed by common activities (e.g. gymnasiums, workshops, warehouses)
Access (B)	Areas of the building accessed primarily by Maintenance/Caretaking/Janitorial Staff and within reach without use of a ladder. Includes areas within reach in Boiler Rooms, Electrical Rooms, Janitors Closets, Elevator Rooms, Mechanical Rooms, etc. Includes materials within reach from fixed ladders or catwalks, mezzanines, and accessible pipe chases.
Access (C) and Visible	Areas of the building above 8' - 9' where use of a ladder or scaffold is required to reach the ACM. Only includes ACM that are visible to view without the removal or opening of other building components such as ceiling tiles or service access panels. Visible column on HMIS sheets will say YES.
Access (C) and not Visible	Areas of the building above 8' - 9' where use of a ladder or scaffold is required to reach the ACM. Includes ACM that are not visible to view and require the removal of a building component to see, such as ceilings tiles or access panels to view and access. Includes rarely entered crawl spaces, attic spaces, etc. Observations will be limited to the extent visible from the access points. Visible column on HMIS sheets will say NO.
Access (D)	Areas of the building behind inaccessible solid ceiling systems, walls or equipment etc. where demolition of the ceiling, wall or equipment etc. is required to reach the ACM. Material inaccessible due to height or location or is only accessed under unusual situations. Evaluation of condition and extent of ACM is limited or impossible, depending on the surveyor's ability to visually examine materials in Access D.

4.0 ACTION MATRIX AND DEFINITIONS

Pinchin's evaluation of the viability of a specific asbestos control option is based on the consideration of the friability, condition, accessibility and visibility of a material. The logic used is that damaged ACM located in an area frequently accessed by all building occupants is of a higher priority than damaged ACM located in an infrequently accessed service area. The action matrix considers the potential for fibre release (primarily from friable ACM) and the possible concerns from regulatory bodies and many building occupants to all damaged ACM (including non-friable).

In any building with asbestos, many current regulations require an Asbestos Management Program be implemented. Depending on the condition and the accessibility, more active measures such as repair or removal may be recommended. The following matrix provides guidance for recommended Actions in the absence of renovation or demolition. In the event of construction or maintenance activity which will disturb ACM more aggressive control or removal will be required.

4.1 Action Matrix

The following tables outline the action decisions based on the relationship of assessed factors. Table I applies to friable ACM. Table II applies to non-friable ACM.

Table I Decision Matrix for Friable ACM

	Condition			
Access	**Good**	**Fair**	**Poor**	**Debris**
(A)	Action 5[1]	Action 5[2]	Action 3	Action 1
(B)	Action 7	Action 6[3]	Action 3	Action 1
(C) Visible	Action 7	Action 6	Action 3	Action 2
(C) Not Visible	Action 7	Action 7	Action 4	Action 2
(D)	Action 7	Action 7	Action 7	Action 7

Table II Decision Matrix for Potentially Friable and Non-Friable ACM

	Condition			
Access	**Good**	**Fair**	**Poor**	**Debris**
(A)	Action 7	Action 7[4]	Action 3	Action 1
(B)	Action 7	Action 7	Action 3	Action 1
(C) Visible	Action 7	Action 7	Action 4	Action 2
(C) Not Visible	Action 7	Action 7	Action 4	Action 2
(D)	Action 7	Action 7	Action 7	Action 7

[1] If friable ACM in access (A)/Good condition is not proactively removed Action 7 (Manage) is recommended.
[2] If friable ACM in access (A)/Fair condition is not proactively removed repair is recommended.
[3] If friable ACM in access (B)/Fair condition is likely to be disturbed after repair proactive removal is recommended.
[4] Action 7 is recommended for all non-friable ACM in Fair condition however some clients may wish to repair or take some action primarily for cosmetic reasons

4.2 Action Definitions

The following are the definitions in the Action Matrix Table presented above:

Action Definitions	
Action 1	Clean-Up of ACM Debris Restrict access that is likely to cause a disturbance of the ACM Debris and clean up ACM Debris. Utilize appropriate asbestos precautions.
Action 2	Precautions for Access Which may Disturb ACM Debris Use appropriate means to isolate the debris or to limit entry to the area which may disturb the material. At locations where ACM Debris can remain in place in lieu of removal or clean-up (e.g. Debris on top of ceiling tiles or behind lockable door), Utilize appropriate asbestos precautions to enter the area if this will disturb debris. The precautions will be required until the ACM Debris has been cleaned up.
Action 3	ACM Removal Remove ACM. Utilize asbestos procedures appropriate to the scope of the removal work. Until it is removed, restrict access to the material so it is not disturbed.
Action 4	Precautions for Work Which may Disturb ACM in Poor Condition. Utilize appropriate asbestos precautions if ACM may be disturbed by work on or near ACM. This does not require restricting access to the area, only control of work which may contact or disturb the ACM. Removal is the only viable option if work will disturb ACM.
Action 5	Proactive ACM Removal Remove friable ACM where the presence of friable asbestos in Good condition is not desirable. If friable ACM in Fair condition is not removed, then Repair friable ACM.
Action 6	ACM Repair Repair friable ACM in Fair condition which is not likely to be damaged again or disturbed by normal use of the area or room. Pinchin recommends proactive removal if friable ACM is likely to be damaged or disturbed during normal use of the area or room
Action 7	Asbestos Management Program with Routine Surveillance Implement an Asbestos Management Program, including routine surveillance of ACM. Reassess materials regularly (typically once per year).

Master Template: Methodology Annex A to Appendix I Evaluation Criteria, HAZ, January 10, 2020

APPENDIX III

Location Summary Report

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

LOCATIONS LIST

PINCHIN
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Client:City of Winnipeg Water and Waste Dept **Site: , , MB**
Building Name: Chlorine Building (Bldg. B)
Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
8	Chlorine Building - Chlorine Tonner Room	1200	Main-Chlorine Building	A	There was no vermiculite insulation found inside masonry block walls. Mortar on masonry walls is not asbestos containing.
9	Chlorine Building - Chlorinator Room	300	Main-Chlorine Building	A	There was no vermiculite insulation found inside masonry block walls. Mortar on masonry walls is not asbestos containing.
10	Chlorine Building - Vestibule	40	Main-Chlorine Building	A	Masonry walls suspect to contain asbestos containing vermiculite insulation. Mortar on masonry walls is not asbestos containing.
11	Chlorine Building - Stairwell	160	Main-Chlorine Building	A	Masonry walls suspect to contain asbestos containing vermiculite insulation. Mortar on masonry walls is not asbestos containing.
43	Chlorine Building Exterior	0	NA	A	2019 - Confirmed No vermiculite in hollow core walls. Roof sections needs to be tested prior to any renovation or demolition activities. Mortar on masonry walls is not asbestos containing.

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

LOCATIONS LIST

PINCHIN
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Client:City of Winnipeg Water and Waste Dept **Site: , , MB**
Building Name: Garage (Bldg. F)
Survey Date: 2016-06-20 **Last Re-Assessment: 2019-07-03**

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
12	Garage - Garage	960	Main-Garage	A	Masonry walls suspect to contain asbestos containing vermiculite insulation. Mortar on Masonry walls presumed asbestos-containing
44	Garage Building Exterior	0	NA	A	Masonry walls suspect to contain asbestos containing vermiculite insulation. Roof sections needs to be tested prior to any renovation or demolition activities. Transite Cement Pipe Debris present on Ground outside building

Client:City of Winnipeg Water and Waste Dept **Site: , , MB**
Building Name: Old Pump Building (Bldg. D)
Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
13	Old Pump Building - Dispatch	1050	Second-Old Pump Building	A	
14	Old Pump Building - Office	108	Second-Old Pump Building	A	
15	Old Pump Building - Office	108	Second-Old Pump Building	A	Drywall joint compound of the drywall sections needs to be tested prior to any renovation or demolition works
16	Old Pump Building - Washroom	85	Second-Old Pump Building	A	
17	Old Pump Building - Vestibule	35	Second-Old Pump Building	A	
18	Old Pump Building - Stairwell	70	Second-Old Pump Building	A	Masonry walls suspect to contain asbestos containing vermiculite insulation. Mortar on brick walls is presumed asbestos containing.
19	Old Pump Building - Storage	120	Third-Old Pump Building	A	Mortar on brick walls is presumed asbestos containing.
20	Old Pump Building - Hallway	70	Main-Old Pump Building	A	Masonry walls suspect to contain asbestos containing vermiculite insulation. Mortar on brick walls is presumed asbestos containing.
21	Old Pump Building - Furnace Room	105	Main-Old Pump Building	A	Rain Water Leader Pipe is present at the back of the duct Masonry walls suspect to contain asbestos containing vermiculite insulation. Grout (masonry mortar/cement/plaster) on brick walls is presumed asbestos containing. Damage DW fittings present June 2017
22	Old Pump Building - Shop	1835	Main-Old Pump Building	A	Masonry walls suspect to contain asbestos containing vermiculite insulation.
23	Old Pump Building - Office	140	Main-Old Pump Building	A	
24	Old Pump Building - Office	160	Main-Old Pump Building	A	
25	Old Pump Building - Office	170	Main-Old Pump Building	A	
26	Old Pump Building - Office	154	Main-Old Pump Building	A	
27	Old Pump Building - Tool Crib	240	Main-Old Pump Building	A	Location Demolished now part of location 22
28	Old Pump Building - Washroom	132	Main-Old Pump Building	A	Masonry walls suspect to contain asbestos containing vermiculite insulation. Setting compound on ceramic wall tiles is presumed asbestos containing.
29	Old Pump Building - Locker Room	425	Main-Old Pump Building	A	Masonry walls suspect to contain asbestos containing vermiculite insulation. Mortar on masonry and setting compound on ceramic tiles presumed asbestos
30	Old Pump Building - Electrical Room	200	Main-Old Pump Building	A	Masonry walls contain asbestos containing vermiculite insulation.
31	Old Pump Building - Generator Room	600	Main-Old Pump Building	A	Masonry walls contain asbestos containing vermiculite insulation.
32	Old Pump Building - NE Corner Storage Room	100	Basement-Old Pump Building	A	
33	Old Pump Building - Basement	1650	Basement-Old Pump Building	A	

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
34	Old Pump Building - Storage Room	200	Basement-Old Pump Building	A	
35	Old Pump Building - Record Storage Vault	150	Basement-Old Pump Building	A	Masonry walls suspect to contain asbestos containing vermiculite insulation. Mortar on cinder block walls is presumed asbestos containing.
36	Old Pump Building - Crawlspace	800	Basement-Old Pump Building	A	
37	Old PUmp Building - Hallway	450	Basement-Old Pump Building	A	
38	Old Pump Building - Sump Pit Area	80	Basement-Old Pump Building	A	
39	Old Pump Building - Sump Room	300	Basement-Old Pump Building	A	
41	Old Pump Building Exterior	0	NA	A	Roof sections needs to be tested prior to any renovation or demolition activities. Mortar on brick walls is presumed asbestos containing.

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

LOCATIONS LIST

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Client:City of Winnipeg Water and Waste Dept **Site: , , MB**
Building Name: Pump Building (Bldg. A)
Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Pump Building - Basement	9000	Basement-Pump Building	A	Setting compound on ceramic tiles is found not to contain asbestos. Damaged fittings present July 2020
2	Pump Building - Chlorine Analyzer Room	225	Main-Pump Building	A	There was no vermiculite insulation found inside masonry block walls. Mortar on Masonry walls confirmed non-asbestos
3	Pump Building - Washroom	75	Main-Pump Building	A	There was no vermiculite insulation found inside masonry block walls. Mortar on Masonry walls confirmed non-asbestos
4	Pump Building - Vestibule/Stairwell	450	Main-Pump Building	A	2019 - Confirmed no vermiculite in hollow core walls Mortar on Masonry walls confirmed non-asbestos
5	Pump Building - Control Room	350	Main-Pump Building	A	No vermiculite insulation found inside masonry walls October 9, 2019 Mortar on Masonry walls confirmed non-asbestos
6	Pump Building - Electrical Room	400	Main-Pump Building	A	2019 - Masonry walls confirmed - no vermiculite insulation. Mortar on Masonry walls confirmed non-asbestos
7	Pump Building - Filter Room	250	Main-Pump Building	A	There was no vermiculite insulation found inside masonry block walls. Mortar on Masonry walls confirmed non-asbestos
42	Pump Building Exterior	0	NA	A	2019 - Confirmed No vermiculite in hollow core walls Roof sections needs to be tested prior to any renovation or demolition activities. Mortar on brick walls is presumed asbestos containing July 2020 Exterior Stucco Does not contain asbestos 275519

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

LOCATIONS LIST

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Client:City of Winnipeg Water and Waste Dept **Site: , , MB**
Building Name: Storage Shed (Bldg. E)
Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
40	Storage Shed - Storage Shed	300	Main-Storage Shed	A	Masonry walls suspect to contain asbestos containing vermiculite insulation. Mortar on masonry walls is presumed asbestos containing.
45	Storage Building Exterior	0	NA	A	Masonry walls suspect to contain asbestos containing vermiculite insulation. Roof sections needs to be tested prior to any renovation or demolition activities. Mortar on masonry walls is presumed asbestos containing.

APPENDIX IV

Asbestos Material Summary Report / Sample Log

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

PINCHIN
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Client:City of Winnipeg Water and Waste Dept **Site: 360 McPhillips Ave., Winnipeg, MB** **Building Name: Chlorine Building (Bldg. B)** **Surveyor: Jason Combe** **Survey Date: 2006-05-01**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	V0001	PIPING | SWEAT WRAP PIPE INSULATION | SWEATWRAP/FAI/GEN/LOC 1	8,9,11	A	105	0	0	0	Chrysotile	Yes
Asbestos	S0007	PIPING | PARGING OVER FIBREGLASS | PARGING/FTG/RWL/LOC 9	8,9,11	A	0	0	17	0	Chrysotile	Yes
Asbestos	V0015	WALL | PLASTER | PLASTER ON CONCRETE, EXTERIOR WALL FOUNDATION, PUMP BLDG (SAMPLE NO. 0034 - AUGUST 28, 2015 - 1517151_PLM) (FOR SAMPLE 0015B-C IT WAS SAMPLE NO. 0034B-C- JUNE 30, 2016 - B131169)	43	A	0	0	0	100	None Detected	No
Asbestos	V0016	WALL | TAR | BLACK TAR, EXTERIOR WALL FOUNDATION, PUMP BLDG (SAMPLE NO. 0035 - AUGUST 28, 2015) 1517151_PLM	43	A	0	0	0	100	Chrysotile	Yes
Asbestos	S0019	WALL | MORTAR | PLASTER/GOUT ON MASONRY BLOCK WALLS (LOC. 8 & 9), CHLORINE TONNER ROOM AND CHLORINATOR ROOM, CHLORINE BLDG. (JAN. 15, 2020 - LAB. REF. B224881)	8,9,10,11,43	A	0	0	0	100	None Detected	No
Asbestos	V9500	OTHER | ROOFING MATERIAL |	43	A	0	0	0	0	Presumed Asbestos	Yes
Asbestos	V9500	WALL | VERMICULITE	10,11	A	0	0	0	100	Presumed Asbestos	Yes
Asbestos	V0000	WALL | VERMICULITE	8,9	A	0	0	0	100	Non Asbestos	No

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

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Client:City of Winnipeg Water and Waste Dept **Site: 360 McPhillips Ave., Winnipeg, MB** **Building Name: Garage (Bldg. F)** **Surveyor: Jason Combe** **Survey Date: 2016-06-20**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	S0018	WALL | PLASTER | PLASTER ON CONCRETE, EXTERIOR WALL FOUNDATION, GARAGE BLDG (SAMPLE NO. 0037 - AUGUST 28, 2015 - 1517151_PLM) (FOR SAMPLE 0018B-C IT WAS SAMPLE NO. 0037B-C- JUNE 30, 2016 - B131169)	44	A	0	0	0	100	None Detected	No
Asbestos	V9500	OTHER | CEMENT PRODUCT |	44	A	8	0	0	0	Presumed Asbestos	Yes
Asbestos	V9500	WALL | MORTAR |	12,44	A	0	0	0	100	Presumed Asbestos	Yes
Asbestos	V9500	WALL | ROOFING MATERIAL |	44	A	0	0	0	33	Presumed Asbestos	Yes
Asbestos	V9500	WALL | VERMICULITE |	12	A	0	0	0	25	Presumed Asbestos	Yes
Asbestos	V9500	WALL | VERMICULITE/CONCRETE BLOCK WALLS	44	A	0	0	0	20	Presumed Asbestos	Yes

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

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Client:City of Winnipeg Water and Waste Dept **Site: 360 McPhillips Ave., Winnipeg, MB** **Building Name: Old Pump Building (Bldg. D)** **Surveyor: Jason Combe** **Survey Date: 2006-05-01**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	V0002	PIPING | SWEAT WRAP PIPE INSULATION | SWEATWRAP / DW / LOC 1	21,36,39	A	70	0	0	0	None Detected	No
Asbestos	V0004	PIPING | PARGING OVER FIBREGLASS | PARGING / FTG / DW / LOC 1	21,36,39	A	0	0	17	0	Chrysotile	Yes
Asbestos	S0008	CEILING | CEILING TILES (LAY-IN) | CEILING TILE / AT-1 / 24 X 48 LAY IN / LOC 13	13,14,15	A	0	1266	0	0	None Detected	No
Asbestos	V0009	CEILING | CEILING TILES (GLUE-ON) | CEILING TILE / AT-2 / 12 X 12 GLUED ON / LOC 18	17,18,20	A	0	175	0	0	None Detected	No
Asbestos	S0010	WALL | PLASTER | PLASTER WALL / SHOP / OLD PUMP BUILDING / LOC 22	22	A	0	0	0	100	None Detected	No
Asbestos	S0011	CEILING | CEILING TILES (LAY-IN) | CEILING TILE / SHOP / OLD PUMP BUILDING / LOC 22 NOTE: FROM PROJ. NO. 64431/S-0001/LAB REF:B78109/DATED JAN. 27, 2011	22	A	0	0	0	100	Chrysotile	Yes
Asbestos	S0017	WALL | PLASTER | PLASTER ON CONCRETE, EXTERIOR WALL, OLD PUMP BLDG (SAMPLE NO. 0036 - AUGUST 28, 2015 - 1517151_PLM) (FOR SAMPLE 0017B-C IT WAS SAMPLE NO. 0036B-C- JUNE 30, 2016 - B131169)	41	A	0	300	0	0	None Detected	No
Asbestos	S0019	FLOOR | TERRAZZO | TERRAZO FLOOR, ELECTRICAL ROOM AND SHOP FLOOR (LOC. 30 & 22), OLD PUMP BLDG.(JAN. 15, 2020 - B224882)	22,30	A	0	0	0	100	None Detected	No
Asbestos	S0020	WALL | DRYWALL AND JOINT COMPOUND | DRYWALL JOINT CPD. ON WALLS, ELECTRICAL ROOM AND GENERATOR ROOM(LOC. 30 & 31), OLD PUMP BLDG.(JAN. 15, 2020 - B224882)	30,31	A	0	0	0	100	None Detected	No
Asbestos	S0021	WALL | PLASTER | PLASTER/GROUT ON MASONRY BLOCK WALLS, ELECTRICAL ROOM AND GENERATOR ROOM(LOC. 30 & 31), OLD PUMP BLDG. (JAN. 15, 2020 - B224882)	30,31	A	0	0	0	100	None Detected	No
Asbestos	S0023	WALL | MORTAR | PLASTER/GROUT ON CERAMIC CLAY TILE ON WALLS, ELECTRICAL ROOM AND GENERATOR ROOM(LOC. 30 & 31), OLD PUMP BLDG. (JAN. 15, 2020 - B224882)	30	A	0	0	0	100	None Detected	No
Asbestos	S0024	WALL | PLASTER | PLASTER/GROUT ON QUARRY TILES ON WALLS, GENERATOR ROOM AND SHOP FLOOR(LOC. 31 & 22), OLD PUMP BLDG.(JAN. 15, 2020 - B224882)	22,31	A	0	0	0	100	None Detected	No
Asbestos	S0025	WALL | VERMICULITE/CONCRETE BLOCK WALLS | VERMICULITE INSULATION IN MASONRY BLOCK WALLS, ELECTRICAL ROOM AND GENERATOR ROOM(LOC. 30 & 31), OLD PUMP BLDG.(JAN. 15,	30,31	A	0	0	0	100	Libby Amphibole Detected	Yes

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
		2020 - B224883)								
Asbestos	V9000	CEILING | CEMENT PRODUCT |	16	A	0	128	0	0	Confirmed Asbestos	Yes
Asbestos	V9000	WALL | CEMENT PRODUCT	13,16,17	A	0	944	0	0	Confirmed Asbestos	Yes
Asbestos	V9500	CEILING | DRYWALL AND JOINT COMPOUND |	13,14,15	A	0	0	0	100	Presumed Asbestos	Yes
Asbestos	V9500	OTHER | ROOFING MATERIAL |	41	A	0	0	0	0	Presumed Asbestos	Yes
Asbestos	V9500	WALL | DRYWALL AND JOINT COMPOUND |	13,14,15,28,29	A	0	0	0	63	Presumed Asbestos	Yes
Asbestos	V9500	WALL | MORTAR |	13,18,19,20,21,27,28,29,35,41	A	0	0	0	58	Presumed Asbestos	Yes
Asbestos	V9500	WALL | VERMICULITE |	18,20,22,27,28,35	A	0	0	0	24	Presumed Asbestos	Yes
Asbestos	V9500	WALL | VERMICULITE/CONCRETE BLOCK WALLS	21,29	A	0	0	0	7	Presumed Asbestos	Yes
Asbestos	V0000	FLOOR | VINYL SHEET FLOORING	13,14,15,16,17,24,25,31	A	0	2316	0	0	Non Asbestos	No

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

PINCHIN
1.855.PINCHIN www.pinchin.com

Client:City of Winnipeg Water and Waste Dept **Site: 360 McPhillips Ave., Winnipeg, MB** **Building Name: Pump Building (Bldg. A)** **Surveyor: Jason Combe** **Survey Date: 2006-05-01**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	S0001	PIPING, PIPING ONE | SWEAT WRAP PIPE INSULATION | SWEATWRAP / FAI / GEN / LOC 1	1,2,4,7	A	181	0	0	0	Chrysotile	Yes
Asbestos	S0002	PIPING ONE | SWEAT WRAP PIPE INSULATION | SWEATWRAP / DW / LOC 1	1	A	0	0	0	800	None Detected	No
Asbestos	S0003	DUCT | MAGNESIA BLOCK | MAGBLOCK / GENE / LOC 1	1	A	145	0	0	0	Chrysotile	Yes
Asbestos	V0004	PIPING | PARGING CEMENT | PARGING / FTG / DW / LOC 1	1	A	0	0	10	0	Chrysotile	Yes
Asbestos	S0005	PIPING | PARGING OVER FIBREGLASS | PARGING / FTG / FAI / GEN / LOC 1	1	A	0	0	8	0	Chrysotile	Yes
Asbestos	S0006	PIPING TWO, PIPING THREE | PARGING OVER FIBREGLASS | PARGING / FTG / HWS / LOC 2	2	A	0	0	12	0	Chrysotile	Yes
Asbestos	V0007	PIPING, PIPING ONE | PARGING CEMENT | PARGING / FTG / RWL / LOC 9	2,4,7	A	0	0	8	0	Chrysotile	Yes
Asbestos	S0012	FLOOR | VINYL FLOOR TILE AND MASTIC | VINYL FLOOR TILES (GREY WITH BLACK STRIPES) (HOMOGENOUS, BEIGE, CONSOLIDATED RUBBERY) (HOMOGENOUS, YELLOW, SOFT, STICKY MATERIAL ON BACK), CONTROL ROOM-PUMP BLDG, LOC NO. 05, MCPHILIPS PUMPING STATION	5	A	0	0	0	100	None Detected	No
Asbestos	S0014	WALL | PLASTER | STUCCO PLASTER, EXTERIOR WALL, PUMP BLDG (SAMPLE NO. 0033 - AUGUST 28, 2015 - 1517151_PLM) (FOR SAMPLE 0014B-C IT WAS SAMPLE NO. 0033B-C- JUNE 30, 2016 - B131169)	42	A	0	422	0	0	None Detected	No
Asbestos	S0015	WALL | PLASTER | PLASTER ON CONCRETE, EXTERIOR WALL FOUNDATION, PUMP BLDG (SAMPLE NO. 0034- AUGUST 28, 2015 - 1517151_PLM) (FOR SAMPLE 0015B-C IT WAS SAMPLE NO. 0034B-C- JUNE 30, 2016 - B131169)	42	A	0	360	0	0	None Detected	No
Asbestos	S0016	WALL | TAR | BLACK TAR, EXTERIOR WALL, PUMP BLDG (SAMPLE NO. 0035 - AUGUST 28, 2015) 1517151_PLM	42	A	0	0	0	100	Chrysotile	Yes
Asbestos	S0019	WALL | MORTAR | GROUT/CEMENT MORTAR/PLASTER ON BLOCK WALLS, CONTROL ROOM (LOC. 5) AND ELECTRICAL ROOM (LOC. 6), PUMP BLDG. (OCTOBER 23, 2019 - LAB REF. B220159)	5,6	A	0	0	0	100	None Detected	No
Asbestos	S0020	WALL | MORTAR | THIN SET BACK OF BLUE TILE, VESTIBULE/STAIRWELL (LOC. 4), PUMP BLDG. (OCTOBER 23, 2019 - LAB REF. B220159)	4	A	0	0	0	100	None Detected	No
Asbestos	S0021	FLOOR | ADHESIVE/MASTIC | ADHESIVE MASTIC AND TERRAZO TILE (LOC. 2 & 3), CHLORINE ROOM	2,3	A	0	0	0	100	None Detected	No

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
		AND WASHROOM, PUMP BLDG. (JAN. 15, 2020 - LAB. REF. B224880								
Asbestos	S0022	FLOOR | PLASTER | PLASTER/GROUT ON TERRAZO TILE (LOC. 2 & 3), CHLORINE ROOM AND WASHROOM, PUMP BLDG. (JAN. 15, 2020 - LAB. REF. B224880	2,3	A	0	0	0	100	None Detected	No
Asbestos	S0023	WALL | MORTAR | PLASTER/GROUT ON CINDER BLOCK WALLS (LOC. 2, 3 & 7), CHLORINE ROOM, WASHROOM AND FILTER ROOM, PUMP BLDG. (JAN. 15, 2020 - LAB. REF. B224880	2,3,7	A	0	0	0	100	None Detected	No
Asbestos	S0025	FLOOR | MORTAR | PLASTER/GROUT ON CERAMIC TILE (LOC. 1), PUMP FLOOR, PUMP BLDG. (JAN. 15, 2020 - LAB. REF. B224880	1	A	0	0	0	100	None Detected	No
Asbestos	V9500	OTHER | ROOFING MATERIAL	42	A	0	0	0	0	Presumed Asbestos	Yes
Asbestos	V0000	FLOOR | ADHESIVE/MASTIC |	4	A	0	0	0	100	Non Asbestos	No
Asbestos	V0000	FLOOR | PLASTER |	4	A	0	0	0	100	Non Asbestos	No
Asbestos	V0000	PIPING | FIBREGLASS |	1,7	A	14	0	2	0	Non Asbestos	No
Asbestos	V0000	WALL | MASONRY |	6	A	0	0	0	0	Non Asbestos	No
Asbestos	V0000	WALL | MORTAR |	4	A	0	0	0	0	Non Asbestos	No
Asbestos	V0000	WALL | PLASTER	42	A	0	0	0	100	Non Asbestos	No

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

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Client:City of Winnipeg Water and Waste Dept **Site: 360 McPhillips Ave., Winnipeg, MB** **Building Name: Storage Shed (Bldg. E)** **Surveyor: Jason Combe** **Survey Date: 2006-05-01**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	V0018	WALL | PLASTER | PLASTER ON CONCRETE, EXTERIOR WALL FOUNDATION, GARAGE BLDG (SAMPLE NO. 0037 - AUGUST 28, 2015 - 1517151_PLM) (FOR SAMPLE 0018B-C IT WAS SAMPLE NO. 0037B-C- JUNE 30, 2016 - B131169)	45	A	0	0	0	0	None Detected	No
Asbestos	V9500	OTHER | ROOFING MATERIAL |	45	A	0	0	0	100	Presumed Asbestos	Yes
Asbestos	V9500	WALL | MORTAR |	40,45	A	0	0	0	67	Presumed Asbestos	Yes
Asbestos	V9500	WALL | VERMICULITE/CONCRETE BLOCK WALLS	40,45	A	0	0	0	40	Presumed Asbestos	Yes

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

APPENDIX V

HMIS Data Report

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 1 : Chlorine Building (Bldg. B)**

Location: #8 : Chlorine Building - Chlorine Tonner Room **Floor: Main-Chlorine Building** **Room #:** **Area (sqft): 1200**

Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		6			EA	V0007	Chrysotile	10-25%	Confirmed Asbestos(F)
Piping	Rain Water Leader	Sweat Wrap pipe insulation	Straight	Canvas	C	Y		40			LF	V0001	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Vermiculite	Insulation	Masonry	B	N		100			%	V0000	Non-Asbestos		None
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	S0019	None Detected	N.D.	None
Wall		Masonry	No Information	NI				1230			SF				

There was no vermiculite insulation found inside masonry block walls. Mortar on masonry walls is not asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 1 : Chlorine Building (Bldg. B)**

Location: #9 : Chlorine Building - Chlorinator Room **Floor: Main-Chlorine Building** **Room #:** **Area (sqft): 300**

Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		5	1		EA	S0007	Chrysotile	10-25%	Confirmed Asbestos(F)
Piping	Rain Water Leader	Sweat Wrap pipe insulation	Straight	Canvas	C	Y		45			LF	V0001	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Vermiculite	Insulation	Masonry	B	N		100			%	V0000	Non-Asbestos		None
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	S0019	None Detected	N.D.	None
Wall		Masonry	No Information	NI				600			SF				

There was no vermiculite insulation found inside masonry block walls. Mortar on masonry walls is not asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 1 : Chlorine Building (Bldg. B)**
Location: #10 : Chlorine Building - Vestibule **Floor: Main-Chlorine Building** **Room #:** **Area (sqft): 40**
Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Vermiculite	Insulation	Masonry	B	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	V0019	None Detected	N.D.	None
Wall		Masonry	No Information	NI											

Masonry walls suspect to contain asbestos containing vermiculite insulation. Mortar on masonry walls is not asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 1 : Chlorine Building (Bldg. B)**
Location: #11 : Chlorine Building - Stairwell **Floor: Main-Chlorine Building** **Room #:** **Area (sqft): 160**
Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		5			EA	V0007	Chrysotile	10-25%	Confirmed Asbestos(F)
Piping	Rain Water Leader	Sweat Wrap pipe insulation	Straight	Canvas	C	Y		20			LF	V0001	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Vermiculite	Insulation	Masonry	B	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	V0019	None Detected	N.D.	None
Wall		Concrete (poured)	No Information	NI											
Wall		Masonry	No Information	NI											

Masonry walls suspect to contain asbestos containing vermiculite insulation. Mortar on masonry walls is not asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 1 : Chlorine Building (Bldg. B)**
Location: #43 : Chlorine Building Exterior **Floor: NA** **Room #:** **Area (sqft): 0**
Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Other	Roof	Roofing material										V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry		Clay Tile (block)	B	N									
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	V0019	None Detected	N.D.	None
Wall	Exterior	Clay Tile (block)	Surface	N/A	A	Y									
Wall	Exterior	Plaster	Base	N/A	A	Y		100			%	V0015	None Detected	N.D.	None
Wall	Exterior	Tar		N/A	A	Y		100			%	V0016	Chrysotile	5-10%	Confirmed Asbestos(NF)

2019 - Confirmed No vermiculite in hollow core walls. Roof sections needs to be tested prior to any renovation or demolition activities. Mortar on masonry walls is not asbestos containing.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 6 : Garage (Bldg. F)**
Location: #12 : Garage - Garage **Floor: Main-Garage** **Room #:** **Area (sqft): 960**
Survey Date: 2016-06-20 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Drywall (no compound)													
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Joist	Wood	No Information	NI											
Wall		Masonry	No Information	Drywall (no compound)	B	N									
Wall		Vermiculite	Insulation	Masonry	B	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall		Drywall (no compound)													
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Masonry walls suspect to contain asbestos containing vermiculite insulation. Mortar on Masonry walls presumed asbestos-containing

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 6 : Garage (Bldg. F)**
Location: #44 : Garage Building Exterior **Floor: NA** **Room #:** **Area (sqft): 0**
Survey Date: 2016-06-20 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Other[1]	Debris	Cement Product								8	LF	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Vermiculite/concrete block walls	Insulation	Masonry	B	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	Exterior	Plaster	Base	Paint	A	Y		100			%	S0018	None Detected	N.D.	None
Wall	Exterior	Masonry	Surface	Paint	A	Y									
Wall	Roof	Roofing material	Surface		C	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Masonry walls suspect to contain asbestos containing vermiculite insulation. Roof sections needs to be tested prior to any renovation or demolition activities. Transite Cement Pipe Debris present on Ground outside building
1 - Debris on ground outside building

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

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HAZARDOUS MATERIALS INVENTORY SYSTEM

ALL DATA REPORT

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Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 4 : Old Pump Building (Bldg. D)**
Location: #13 : Old Pump Building - Dispatch **Floor: Second-Old Pump Building** **Room #:** **Area (sqft): 1050**
Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Drywall and joint compound			C			100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		1050			SF	S0008	None Detected	N.D.	None
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		1050			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Not Accessible	NI	No Information	NI											
Wall		Drywall and joint compound			A			100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Cement Product	Surface		A	Y		480			SF	V9000	Confirmed Asbestos		Confirmed Asbestos(NF)
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 4 : Old Pump Building (Bldg. D)**
Location: #14 : Old Pump Building - Office **Floor: Second-Old Pump Building** **Room #:** **Area (sqft): 108**
Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Drywall and joint compound			C			100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		108			SF	V0008	None Detected	N.D.	None
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		108			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Not Accessible	NI	No Information	NI											
Wall		Drywall and joint compound			A			100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 4 : Old Pump Building (Bldg. D)**
Location: #15 : Old Pump Building - Office **Floor: Second-Old Pump Building** **Room #:** **Area (sqft): 108**
Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Drywall and joint compound			C			100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		108			SF	V0008	None Detected	N.D.	None
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		108			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Not Accessible	NI	No Information	NI											
Wall		Drywall and joint compound			A			100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Drywall joint compound of the drywall sections needs to be tested prior to any renovation or demolition works

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 4 : Old Pump Building (Bldg. D)**
Location: #16 : Old Pump Building - Washroom **Floor: Second-Old Pump Building** **Room #:** **Area (sqft): 85**
Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Cement Product	Surface		A	Y		128			SF	V9000	Confirmed Asbestos		Confirmed Asbestos(NF)
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		85			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Not Accessible	NI	No Information	NI											
Wall		Cement Product	Surface		A	Y		352			SF	V9000	Confirmed Asbestos		Confirmed Asbestos(NF)

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 4 : Old Pump Building (Bldg. D)**
Location: #17 : Old Pump Building - Vestibule **Floor: Second-Old Pump Building** **Room #:** **Area (sqft): 35**
Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling tiles (glue-on)	Surface	N/A	C	Y		35			SF	V0009	None Detected	N.D.	None
Duct	Not Found	NI	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		35			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Wood													
Wall		Cement Product	Surface		A	Y		112			SF	V9000	Confirmed Asbestos		Confirmed Asbestos(NF)

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 4 : Old Pump Building (Bldg. D)**
Location: #18 : Old Pump Building - Stairwell **Floor: Second-Old Pump Building** **Room #:** **Area (sqft): 70**
Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling tiles (glue-on)	Surface	N/A	C	Y		70			SF	V0009	None Detected	N.D.	None
Duct	Not Found	NI	No Information	NI											
Floor	All	Terrazzo	Surface		A	Y									
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Vermiculite	Insulation	Masonry	B	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	No Information	NI											

Masonry walls suspect to contain asbestos containing vermiculite insulation. Mortar on brick walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 4 : Old Pump Building (Bldg. D)**
Location: #19 : Old Pump Building - Storage **Floor: Third-Old Pump Building** **Room #:** **Area (sqft): 120**
Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Mortar on brick walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 4 : Old Pump Building (Bldg. D)**
Location: #20 : Old Pump Building - Hallway **Floor: Main-Old Pump Building** **Room #:** **Area (sqft): 70**
Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling tiles (glue-on)	Surface	N/A	C	Y		70			SF	V0009	None Detected	N.D.	None
Duct	Not Found	NI	No Information	NI											
Floor	All	Terrazzo	Surface		A	Y									
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Vermiculite	Insulation	Masonry	B	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Wood	No Information	NI											
Wall		Masonry	No Information	NI											

Masonry walls suspect to contain asbestos containing vermiculite insulation. Mortar on brick walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 4 : Old Pump Building (Bldg. D)**

Location: #21 : Old Pump Building - Furnace Room **Floor: Main-Old Pump Building** **Room #:** **Area (sqft): 105**

Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Fresh Air Intake	Not Insulated	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Domestic Water (Hot and Cold)	Parging over Fibreglass	Fitting	Canvas	B	Y		5	1	1	EA	V0004	Chrysotile	10-25%	Confirmed Asbestos(F)
Piping	Domestic Water (Hot and Cold)	Sweat Wrap pipe insulation	Straight	Canvas	B	Y		20			LF	V0002	None Detected	N.D.	None
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Vermiculite/concrete block walls	Insulation	Masonry	B	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Rain Water Leader Pipe is present at the back of the duct Masonry walls suspect to contain asbestos containing vermiculite insulation. Grout (masonry mortar/cement/plaster) on brick walls is presumed asbestos containing. Damage DW fittings present June 2017

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 4 : Old Pump Building (Bldg. D)**
Location: #22 : Old Pump Building - Shop **Floor: Main-Old Pump Building** **Room #:** **Area (sqft): 1835**
Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Ceiling Tiles (lay-in)	No Information	Metal	C	N		100			%	S0011	Chrysotile	>75%	Confirmed Asbestos(PF)
Ceiling		Metal	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor	All	Terrazzo	Surface	N/A	A	Y		100			%	S0019	[None]		[None]
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Not Accessible	NI	No Information	NI											
Wall		Plaster	Surface	N/A	A	Y		100			%	S0010	None Detected	N.D.	None
Wall		Vermiculite	Insulation	Masonry	B	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	S0024	None Detected	N.D.	None
Wall		Masonry	No Information	NI											

Masonry walls suspect to contain asbestos containing vermiculite insulation.

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 4 : Old Pump Building (Bldg. D)**
Location: #23 : Old Pump Building - Office **Floor: Main-Old Pump Building** **Room #:** **Area (sqft): 140**
Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Wood	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	Surface	Carpet	A	Y									
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Not Found	NI	No Information	NI											
Wall		Wood	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 4 : Old Pump Building (Bldg. D)**
Location: #24 : Old Pump Building - Office **Floor: Main-Old Pump Building** **Room #:** **Area (sqft): 160**
Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Wood	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	Carpet	A	N		160			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Not Found	NI	No Information	NI											
Wall		Wood	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 4 : Old Pump Building (Bldg. D)**
Location: #25 : Old Pump Building - Office **Floor: Main-Old Pump Building** **Room #:** **Area (sqft): 170**
Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Wood	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		170			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Not Found	NI	No Information	NI											
Wall		Wood	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 4 : Old Pump Building (Bldg. D)**
Location: #26 : Old Pump Building - Office **Floor: Main-Old Pump Building** **Room #:** **Area (sqft): 154**
Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Wood	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	Surface		A	Y									
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Not Found	NI	No Information	NI											
Wall		Wood	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 4 : Old Pump Building (Bldg. D)**
Location: #27 : Old Pump Building - Tool Crib **Floor: Main-Old Pump Building** **Room #:** **Area (sqft): 240**
Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor	All	Terrazzo	Surface		A	Y									
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Joist	Wood	No Information	NI											
Wall		Vermiculite	Insulation	Masonry	B	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Wood	No Information	NI											
Wall		Masonry	No Information	NI											

Location Demolished now part of location 22

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 4 : Old Pump Building (Bldg. D)**
Location: #28 : Old Pump Building - Washroom **Floor: Main-Old Pump Building** **Room #:** **Area (sqft): 132**
Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Drywall (no compound)													
Floor	All	Terrazzo	ALL		A	Y									
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Drywall and joint compound			A			100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Vermiculite	Insulation	Masonry	B	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	No Information	NI											

Masonry walls suspect to contain asbestos containing vermiculite insulation. Setting compound on ceramic wall tiles is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 4 : Old Pump Building (Bldg. D)**
Location: #29 : Old Pump Building - Locker Room **Floor: Main-Old Pump Building** **Room #:** **Area (sqft): 425**
Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Exhaust	Not Insulated	No Information	NI											
Floor	All	Terrazzo	Surface		A	Y									
Mechanical Equipment	Fan Unit	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Drywall and joint compound			A			100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Vermiculite/concrete block walls	Insulation	Masonry	B	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall[1]	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Masonry walls suspect to contain asbestos containing vermiculite insulation. Mortar on masonry and setting compound on ceramic tiles presumed asbestos
1 - setting compound

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 4 : Old Pump Building (Bldg. D)**

Location: #30 : Old Pump Building - Electrical Room **Floor: Main-Old Pump Building** **Room #:** **Area (sqft): 200**

Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct		NI	No Information	NI											
Floor	All	Terrazzo	Surface	N/A	A	Y		100			%	S0019	[None]		[None]
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Electrical Panel	Not Insulated	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Drywall and joint compound			A			100			%	S0020	None Detected	N.D.	None
Wall		Vermiculite/concrete block walls	Insulation	Masonry	B	N		100			%	S0025	Libby Amphibole Detected	>75%	Confirmed Asbestos(F)
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	S0021	None Detected	N.D.	None
Wall	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	S0023	None Detected	N.D.	None

Masonry walls contain asbestos containing vermiculite insulation.

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 4 : Old Pump Building (Bldg. D)**

Location: #31 : Old Pump Building - Generator Room **Floor: Main-Old Pump Building** **Room #:** **Area (sqft): 600**

Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Exhaust	Not Insulated	No Information	NI											
Duct	Fresh Air Intake	Not Insulated	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		600			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Generator Unit	Not Insulated	No Information	NI											
Mechanical Equipment	Generator Unit	Not Insulated	No Information	NI											
Mechanical Equipment	Generator Unit	Not Insulated	No Information	NI											
Other	Electrical Panel	Not Insulated	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Vermiculite/concrete block walls	Insulation	Masonry	B	N		100			%	S0025	Libby Amphibole Detected	>75%	Confirmed Asbestos(F)
Wall		Drywall (no compound)			A			100			%	S0020	None Detected	N.D.	None
Wall	All	Plaster	Surface	Preformed Block	A	Y		100			%	S0021	None Detected	N.D.	None
Wall	All	Plaster	Surface	Quarry tile	A	Y		100			%	S0024	None Detected	N.D.	None
Wall		Masonry	No Information	NI											

Masonry walls contain asbestos containing vermiculite insulation.

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 4 : Old Pump Building (Bldg. D)**
Location: #32 : Old Pump Building - NE Corner Storage Room **Floor: Basement-Old Pump Building** **Room #:** **Area (sqft): 100**
Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 4 : Old Pump Building (Bldg. D)**
Location: #33 : Old Pump Building - Basement **Floor: Basement-Old Pump Building** **Room #:** **Area (sqft): 1650**
Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 4 : Old Pump Building (Bldg. D)**
Location: #34 : Old Pump Building - Storage Room **Floor: Basement-Old Pump Building** **Room #:** **Area (sqft): 200**
Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Wood	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Not Found	NI	No Information	NI											
Wall		Wood	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 4 : Old Pump Building (Bldg. D)**
Location: #35 : Old Pump Building - Record Storage Vault **Floor: Basement-Old Pump Building** **Room #:** **Area (sqft): 150**
Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Vermiculite	Insulation	Masonry	B	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Masonry walls suspect to contain asbestos containing vermiculite insulation. Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 4 : Old Pump Building (Bldg. D)**
Location: #36 : Old Pump Building - Crawlspace **Floor: Basement-Old Pump Building** **Room #:** **Area (sqft): 800**
Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Dirt													
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Domestic Water (Hot and Cold)	Parging over Fibreglass	Fitting	Canvas	D	Y		5			EA	V0004	Chrysotile	10-25%	Confirmed Asbestos(F)
Piping	Domestic Water (Hot and Cold)	Sweat Wrap pipe insulation	Straight	Canvas	D	Y		20			LF	V0002	None Detected	N.D.	None
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 4 : Old Pump Building (Bldg. D)**
Location: #37 : Old PUmp Building - Hallway **Floor: Basement-Old Pump Building** **Room #:** **Area (sqft): 450**
Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 4 : Old Pump Building (Bldg. D)**
Location: #38 : Old Pump Building - Sump Pit Area **Floor: Basement-Old Pump Building** **Room #:** **Area (sqft): 80**
Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 4 : Old Pump Building (Bldg. D)**
Location: #39 : Old Pump Building - Sump Room **Floor: Basement-Old Pump Building** **Room #:** **Area (sqft): 300**
Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Domestic Water (Hot and Cold)	Rubber Foam on Metal	Fitting	Canvas	B	Y		5			EA	V0004	Chrysotile	10-25%	Confirmed Asbestos(NF)
Piping	Domestic Water (Hot and Cold)	Sweat Wrap pipe insulation	Straight	Canvas	B	Y		30			LF	V0002	None Detected	N.D.	None
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 4 : Old Pump Building (Bldg. D)**
Location: #41 : Old Pump Building Exterior **Floor: NA** **Room #:** **Area (sqft): 0**
Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Other	Built up roofing	Roofing material										V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry		Clay Tile (block)	B	N		100			%				
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Clay Tile (block)	Surface	N/A	A	Y		100			%				
Wall		Plaster	Base	N/A	A	Y		300			SF	S0017	None Detected	N.D.	None

Roof sections needs to be tested prior to any renovation or demolition activities. Mortar on brick walls is presumed asbestos containing.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

ALL DATA REPORT

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Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 3 : Pump Building (Bldg. A)**
Location: #1 : Pump Building - Basement **Floor: Basement-Pump Building** **Room #:** **Area (sqft): 9000**
Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	N/A	No Information	NI											
Duct	Generator Exhaust	Magnesia block	System	Metal	C	Y		145			LF	S0003	Chrysotile	25-50%	Confirmed Asbestos(F)
Floor[1]	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	S0025	None Detected	N.D.	None
Floor		Ceramic Tiles	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Chilled Water Return	Fibreglass	Straight	Canvas	C	Y						V0000	Non-Asbestos		None
Piping	Chilled Water Return	Parging Cement	Fitting	Canvas	C	Y		5			EA	V0004	Chrysotile	10-25%	Confirmed Asbestos(F)
Piping	Chilled Water Supply	Fibreglass	Straight	Canvas	C	Y						V0000	Non-Asbestos		None
Piping	Chilled Water Supply	Parging Cement	Fitting	Canvas	C	Y		5			EA	V0004	Chrysotile	10-25%	Confirmed Asbestos(F)
Piping	City Water/Service Water	Parging over Fibreglass	Fitting	Canvas	C	Y		8			EA	S0005	Chrysotile	25-50%	Confirmed Asbestos(F)
Piping	City Water/Service Water	Sweat Wrap pipe insulation	Straight	Canvas	C	Y		140			LF	S0001	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping one	Domestic Water (Hot and Cold)	Sweat Wrap pipe insulation	Straight	Canvas	C	Y		800			%	S0002	None Detected	N.D.	None
Structure	Beam, Deck	Metal	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Setting compound on ceramic tiles is found not to contain asbestos. Damaged fittings present July 2020
1 - setting compound

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 3 : Pump Building (Bldg. A)**

Location: #2 : Pump Building - Chlorine Analyzer Room **Floor: Main-Pump Building** **Room #:** **Area (sqft): 225**

Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor	All	Plaster	Surface	Ceramic Tiles	A	Y		100			%	S0022	None Detected	N.D.	None
Floor	All	Adhesive/mastic	Surface	Ceramic Tiles	A	N		100			%	S0021	None Detected	N.D.	None
Floor		Ceramic Tiles	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping one	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		2			EA	V0007	Chrysotile	10-25%	Confirmed Asbestos(F)
Piping one	Rain Water Leader	Sweat Wrap pipe insulation	Straight	Canvas	C	Y		16			LF	V0001	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping two	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y			3						
Piping two	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		6			EA	S0006	Chrysotile	25-50%	Confirmed Asbestos(F)
Piping three	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping three	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		6			EA	V0006	Chrysotile	25-50%	Confirmed Asbestos(F)
Structure	Beam, Deck	Metal	No Information	NI											
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	S0023	None Detected	N.D.	None

There was no vermiculite insulation found inside masonry block walls. Mortar on Masonry walls confirmed non-asbestos

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 3 : Pump Building (Bldg. A)**
Location: #3 : Pump Building - Washroom **Floor: Main-Pump Building** **Room #:** **Area (sqft): 75**
Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Metal	No Information	NI											
Duct	Not Found	NI	No Information	NI								IN	Chrysotile	50-75%	
Floor	All	Plaster	Surface	Ceramic Tiles	A	Y		100			%	S0022	None Detected	N.D.	None
Floor	All	Adhesive/mastic	Surface	Ceramic Tiles	A	N		100			%	S0021	None Detected	N.D.	None
Floor		Ceramic Tiles	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI								IN	Chrysotile	50-75%	
Other	Not Found	NI	No Information	NI								IN	Chrysotile	50-75%	
Piping	Not Found	NI	No Information	NI								IN	Chrysotile	50-75%	
Structure	Beam, Deck	Metal	No Information	NI											
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	S0023	None Detected	N.D.	None

There was no vermiculite insulation found inside masonry block walls. Mortar on Masonry walls confirmed non-asbestos

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 3 : Pump Building (Bldg. A)**
Location: #4 : Pump Building - Vestibule/Stairwell **Floor: Main-Pump Building** **Room #:** **Area (sqft): 450**
Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Metal	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor[1]	All	Plaster	Surface	Ceramic Tiles	A	Y		100			%	V0000	Non-Asbestos		None
Floor[2]	All	Adhesive/mastic	Surface	Ceramic Tiles	A	N		100			%	V0000	Non-Asbestos		None
Floor		Ceramic Tiles	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		1			EA	V0007	Chrysotile	10-25%	Confirmed Asbestos(F)
Piping	Rain Water Leader	Sweat Wrap pipe insulation	Straight	Canvas	C	N		3			LF	V0001	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Beam, Deck	Metal	No Information	NI											
Wall[3]		Mortar	No Information	Masonry								V0000	Non-Asbestos		None
Wall	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	S0020	None Detected	N.D.	None

2019 - Confirmed no vermiculite in hollow core walls Mortar on Masonry walls confirmed non-asbestos
1 - Determined to be non-asbestos by representative sampling in other locations
2 - Determined to be non-asbestos by representative sampling in other locations
3 - Drilled hollow cor - no vermiculite present

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 3 : Pump Building (Bldg. A)**
Location: #5 : Pump Building - Control Room **Floor: Main-Pump Building** **Room #:** **Area (sqft): 350**
Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Metal	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor	All	Vinyl Floor Tile and Mastic	Not Applicable	N/A	B	Y		100			%	S0012	None Detected	N.D.	None
Floor		Ceramic Tiles	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Electrical Panel	Not Insulated	No Information	NI											
Piping	All	Not Insulated	No Information	NI											
Structure	Beam, Deck	Metal	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	S0019	None Detected	N.D.	None
Wall		Masonry	No Information	NI											

No vermiculite insulation found inside masonry walls October 9, 2019 Mortar on Masonry walls confirmed non-asbestos

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 3 : Pump Building (Bldg. A)**
Location: #6 : Pump Building - Electrical Room **Floor: Main-Pump Building** **Room #:** **Area (sqft): 400**
Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Metal	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Ceramic Tiles	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Electrical Panel	Not Insulated	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Metal	No Information	NI											
Wall[1]		Masonry	No Information									0000	Non-Asbestos		None
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	S0019	None Detected	N.D.	None

2019 - Masonry walls confirmed - no vermiculite insulation. Mortar on Masonry walls confirmed non-asbestos
1 - Drilled test holes, no vermiculite present

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 3 : Pump Building (Bldg. A)**
Location: #7 : Pump Building - Filter Room **Floor: Main-Pump Building** **Room #:** **Area (sqft): 250**
Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
		Ceramic Tiles													
Ceiling		Concrete (poured)													
Ceiling		Concrete (poured)	No Information	Paint		Y									
Ceiling		Metal	No Information	Paint											
Duct	Not Found	NI													
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)													
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Fibreglass		Canvas	B	Y									
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	Fibreglass	B	Y									
Mechanical Equipment	Motor	Not Insulated													
Other	Not Found	NI	No Information	NI											
Piping	Chilled Water Return	Fibreglass	Straight	Canvas	B	Y		7			LF	V0000	Non-Asbestos		None
Piping	Chilled Water Return	Fibreglass	Fitting	Canvas	B	Y		1			EA	V0000	Non-Asbestos		None
Piping	Chilled Water Return	Fibreglass	Straight	Canvas	B	Y									
Piping	Chilled Water Return	Abated Material	Fitting	Canvas	B	Y					EA	V0004	[None]	10-25%	[Abated]
Piping	Chilled Water Supply	Fibreglass	Straight	Canvas	B	Y		7			LF	V0000	Non-Asbestos		None
Piping	Chilled Water Supply	Fibreglass	Fitting	Canvas	B	Y		1			EA	V0000	Non-Asbestos		None
Piping	Chilled Water Supply	Fibreglass	Straight	Canvas	B	Y									
Piping	Chilled Water Supply	Abated Material	Fitting	Canvas	B	Y					EA	V0004	[None]	10-25%	[Abated]
Piping	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Parging Cement	Fitting	Canvas	C	Y		5			EA	V0007	Chrysotile	10-25%	Confirmed Asbestos(F)
Piping	Rain Water Leader	Sweatwrap	Straight	Canvas	C	Y		22			LF	V0001	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure		Steel													
Structure	Beam, Deck	Metal	No Information	Paint											
Wall		Concrete (poured)													
Wall		Masonry													
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	S0023	None Detected	N.D.	None

There was no vermiculite insulation found inside masonry block walls. Mortar on Masonry walls confirmed non-asbestos

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 3 : Pump Building (Bldg. A)**
Location: #42 : Pump Building Exterior **Floor: NA** **Room #:** **Area (sqft): 0**
Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Other	Built up roofing	Roofing material										V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry		Clay Tile (block)	B	N									
Wall	All	Plaster	Surface	Quarry tile	A	Y		100			%	V0000	Non-Asbestos		None
Wall	Exterior	Clay Tile (block)	Surface	N/A	A	Y									
Wall	Exterior	Plaster	Surface	Paint	A	Y		420		2	SF	S0014	None Detected	N.D.	None
Wall	Exterior	Plaster	Base	N/A	A	Y		360			SF	S0015	None Detected	N.D.	None
Wall	Exterior	Tar			A	Y		100			%	S0016	Chrysotile	5-10%	Confirmed Asbestos(NF)

2019 - Confirmed No vermiculite in hollow core walls Roof sections needs to be tested prior to any renovation or demolition activities. Mortar on brick walls is presumed asbestos containing July 2020 Exterior Stucco Does not contain asbestos 275519

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 2 : Storage Shed (Bldg. E)**
Location: #40 : Storage Shed - Storage Shed **Floor: Main-Storage Shed** **Room #:** **Area (sqft): 300**
Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Drywall (no compound)													
Duct	Exhaust	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Joist	Wood	No Information	NI											
Wall		Masonry	No Information	Drywall (no compound)	B	N									
Wall		Vermiculite/concrete block walls	Insulation	Masonry	B	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall		Drywall (no compound)													
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Masonry walls suspect to contain asbestos containing vermiculite insulation. Mortar on masonry walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: Mc Phillips Pumping Station** **Building Name: 2 : Storage Shed (Bldg. E)**
Location: #45 : Storage Building Exterior **Floor: NA** **Room #:** **Area (sqft): 0**
Survey Date: 2006-05-01 **Last Re-Assessment: 2019-07-03**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Other	Roof	Roofing material	Surface		C	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Vermiculite/concrete block walls	Insulation	Masonry	B	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	Exterior	Plaster	Base	Paint	A	Y		100			%	V0018	None Detected	N.D.	None
Wall	Exterior	Masonry	Surface	Paint	A	Y									

Masonry walls suspect to contain asbestos containing vermiculite insulation. Roof sections needs to be tested prior to any renovation or demolition activities. Mortar on masonry walls is presumed asbestos containing.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

FINAL

Asbestos Reassessment

Secondary Clarifier, North End Water Pollution Control Centre
2230 Main Street,
Winnipeg, Manitoba

Prepared for:

City of Winnipeg Water and Waste Department
110 – 1199 Pacific Avenue
Winnipeg, Manitoba R3E 3S8

October 14, 2021

Pinchin File: 289439

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EXECUTIVE SUMMARY

City of Winnipeg Water and Waste Department (Client) retained Pinchin Ltd. (Pinchin) to conduct an asbestos building materials reassessment of the Secondary Clarifier, North End Water Pollution Control Centre located at 2230 Main Street, Winnipeg, Manitoba. The reassessment was performed on June 24, 2021.

The objective of the reassessment was to evaluate the condition and quantity of previously reported asbestos-containing materials (ACM), and develop corrective action plans as required for the purposes of long-term management. The results of this assessment are not intended for construction, renovation, demolition, or project tendering purposes.

The reassessment was based on information gathered from previous comprehensive assessment report completed by Pinchin. The original assessment report for the Secondary Clarifier, North End Water Pollution Control Centre was dated March 6, 2007. The results of the original report and subsequent survey update reports were reviewed prior to completing the reassessment.

The assessed area was limited to the parts of the buildings where the original report had indicated asbestos-containing materials (ACMs) were present. Rooms where no ACM's were reported were not inspected.

HMIS data has been updated online.

SUMMARY OF FINDINGS

Asbestos-containing materials (ACM) are present as follows:

- Asbestos-containing parging cement on pipe fittings of the heating water, glycol, rainwater leader, and well water systems throughout the building. The parging cement is a friable material which was jacketed with canvas and generally in GOOD condition except for debris in POOR condition (cut section of pipe) on the floor of Location No.30.
- Asbestos-containing parging cement on mechanical equipment is in GOOD condition. The parging cement is a friable material which was jacketed with canvas.
- Asbestos-containing black tar mastic on the exterior wall of the Secondary Clarifier building is in GOOD condition. It is a non-friable material.
- Drywall joint compound suspect to contain asbestos present as wall and ceiling finishes throughout the building is in GOOD condition. Drywall joint compound is non-friable while in place but can generate friable dust upon removal.

- Ceramic tile setting compound throughout the facility is presumed to contain asbestos and is in GOOD condition. It is a potentially friable material; and
- Mortar present on concrete block walls throughout the facility is presumed to contain asbestos and is in GOOD condition. It is a potentially friable material.

SUMMARY OF RECOMMENDATIONS

The following is a summary of significant recommendations; refer to the body of the report for detailed recommendations:

1. Perform a reassessment of asbestos materials on an annual basis.
2. Prior to renovations or demolition, perform a pre-construction assessment to identify any hazardous materials that may be disturbed by the work.
3. Follow appropriate safe work procedures when handling or disturbing asbestos.

This Executive Summary is subject to the same standard limitations as contained in the report and must be read in conjunction with the entire report.

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APPENDICES

1.0 INTRODUCTION AND SCOPE

City of Winnipeg Water and Waste Department (Client) retained Pinchin Ltd. (Pinchin) to conduct an asbestos building materials reassessment at 2230 Main Street, Winnipeg, Manitoba.

Pinchin performed the reassessment on June 24, 2021. The surveyor was accompanied by City of Winnipeg Water and Waste Representative during the reassessment. The assessed area was occupied at the time of the assessment.

The objectives of the reassessment were to document the locations, quantities and conditions of previously identified asbestos containing building materials and develop corrective action plans as required. This reassessment is only to be used for the purposes of long-term management and routine maintenance. The results of this reassessment are not to be used for construction, renovation, demolition or project tendering purposes.

1.1 Scope of Assessment

The objective of the reassessment was to evaluate the condition and quantity of previously reported asbestos-containing materials (ACM), and develop corrective action plans as required.

Additional objectives included the following:

- Documentation of any asbestos abatement that was performed since the last reassessment.

Please refer to Appendix I for a detailed description of the methodology used for this assessment.

2.0 METHODOLOGY

Pinchin conducted an inspection of previously identified asbestos-containing materials (ACM) to evaluate the current condition of all accessible identified in the most recent assessment. The surveyor made reference to any existing assessment or abatement reports (as provided by the Client).

As per the original scope of work, concealed locations such as ceiling spaces above solid ceilings, shafts and chases were accessed via existing access panels. Our investigation did not include demolition of drywall or plaster walls to view concealed conditions. Structural items or exterior building finishes were not removed to determine the presence of concealed materials.

For further details on the methodology including test methods, refer to Appendix I.

3.0 BACKGROUND INFORMATION

3.1 Existing Reports and Summary of Asbestos Abatement

3.1.1 Review of Previous Reports

The reassessment was based on information gathered from previous comprehensive assessment report completed by Pinchin. The original assessment report for the Secondary Clarifier, North End Water Pollution Control Centre was dated March 6, 2007. The results of the original report and subsequent survey update reports were reviewed prior to completing the reassessment.

3.1.2 Summary of Asbestos Abatement since the Previous Assessment

Based on a review of the above noted abatement reports, and observations made during the reassessment, asbestos abatement has not been conducted since the last assessment.

4.0 FINDINGS

The following section summarizes the findings of the reassessment and provides a general description of the asbestos-containing materials (ACM) identified and their locations.

For details on approximate quantities, condition, friability and locations of asbestos materials; refer to the Asbestos Material Summary Report and HMIS Data Report in Appendix III and IV.

Appendix II presents the asbestos bulk sample analytical results.

4.1 Pipe Insulation

Asbestos-containing parging cement is present on pipe fittings of the heating water, glycol, rainwater leader, and well water systems throughout the building. Parging cement is a friable material. The parging cement was jacketed with canvas and in GOOD condition except for debris in POOR condition (cut section of pipe, 1 fitting) on the floor from a cut section of pipe within the North Basement, Location No.30.

Parging cement debris present on cut section of pipe within Location No.30

4.2 Mechanical Equipment Insulation

Asbestos-containing parging cement is present on mechanical equipment within Location No.'s 1, 4, 7, 10, 15, 17, 20, and 58. Parging cement is a friable material which is jacketed with canvas and is in GOOD condition.

4.3 Drywall Joint Compound

Drywall joint compound has not been sampled. In the absence of sampling all drywall joint compound must be presumed to contain asbestos. Drywall (gypsum board) and drywall joint compound presumed to contain asbestos is present as wall and ceiling finishes throughout the building. Drywall joint compound is non-friable while in place but can generate friable dust upon removal. All drywall joint compound is in GOOD condition.

4.4 Sealants, Caulking, and Putty

Asbestos-containing tar mastic present on the exterior of the building, is non-friable and is in GOOD condition.

4.5 Roofing Products

No visual inspection or sampling was conducted at this location. Roofing products are presumed to

4.6 Other Building Materials

Mortar present on concrete block walls throughout the facility is presumed to contain asbestos. It is non-friable and is in GOOD condition.

Ceramic tile setting compound present throughout the facility is presumed to contain asbestos. It is potentially friable and is in GOOD condition.

4.7 Excluded Asbestos Materials

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

- Roofing felts and tar, mastics;
- Floor levelling compound;
- Elevator and lift brakes;
- Electrical components;
- Moulded plastic components (laboratory bench tops);
- Refractory materials and insulations in boilers, incinerators and stacks;
- Insulation under metal clad boilers and vessels;
- Mechanical packing, ropes and gaskets;
- Vermiculite;
- Adhesives and duct mastics;
- Caulking and putties;
- Fibre-reinforced paints and coatings;
- Paper products;
- Soffit and fascia boards;
- Fire resistant doors;
- Metal clad finishes (Galbestos);
- Stucco, plaster or other cementitious parge coatings;
- Vibration dampers on HVAC equipment;
- Terrazzo;
- Ropes and gaskets in cast-iron bell and spigot joints; and
- Sealants on pipe threads.

5.0 RECOMMENDATIONS

5.1 General

Perform a detailed intrusive assessment prior to building renovation or demolition operations. The assessment should include; destructive testing (e.g. coring and/or removal of building finishes and components), sampling of other hazardous materials (lead, mercury, PCBs, mould, etc.), and materials not tested in this study (e.g. roofing materials, caulking, mastics).

5.2 Remedial Work

The following remedial work is recommended.

Material, Quantity & Condition	Location Name (Location #)	Recommended Procedure
Parging cement Debris, 1 fitting POOR Condition	North Basement, Location No.30	Remove in accordance with Moderate Risk Type 2 procedures

5.3 On-going Management and Maintenance

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

Perform a reassessment of asbestos materials on an annual basis.

Monitor the condition of asbestos by conducting a reassessment on a regular basis.

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

Update the asbestos inventory report for the building upon completion of any abatement of ACM.

6.0 TERMS AND LIMITATIONS

This work was performed subject to the Terms and Limitations presented or referenced in the proposal for this project.

Information provided by Pinchin is intended for Client use only. Pinchin will not provide results or information to any party unless disclosure by Pinchin is required by law. Any use by a third party of reports or documents authored by Pinchin or any reliance by a third party on or decisions made by a third party based on the findings described in said documents, is the sole responsibility of such third parties. Pinchin accepts no responsibility for damages suffered by any third party as a result of decisions made or actions conducted. No other warranties are implied or expressed.

7.0 REFERENCES

The following legislation and documents were referenced in completing the assessment and this report:

1. Workplace Safety and Health Act W210.
2. Workplace Safety and Health Hazard Regulation (Manitoba Regulation 217/2006), under the Workplace Safety and Health Act.
3. Manitoba Regulation MR 474/88, Manitoba PCB Regulation made under The Dangerous Goods Act.
4. Guide for Asbestos Management – Safe Work Manitoba.
5. Guideline Managing Demolition Debris Containing Hazardous Materials – Environmental Enforcement and Compliance Branch – Manitoba Conservation and Climate
6. Canada Occupational Health and Safety Regulation, SOR/86-304.
7. Consolidated Transportation of Dangerous Goods Regulations, including Amendment SOR/2019-101, Transportation of Dangerous Goods Act.

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Template: Master Report for Asbestos Reassessment, HAZ, July 29, 2021

APPENDIX I

Methodology

1.0 METHODOLOGY

Pinchin conducts an inspection of previously identified asbestos-containing materials (ACM) to evaluate the current condition of all accessible identified in the most recent assessment. The surveyor makes reference to any existing assessment or abatement reports (as provided by the Client).

1.1 Limitations on Scope

The re-assessment excludes the following:

- Articles belonging to the owner, tenant or occupant (e.g. stored items, furniture, appliances, etc.);
- Underground materials or equipment (e.g. vessels, drums, underground storage tanks, pipes, etc.);
- Building envelope, structural components, inaccessible or concealed materials or other items where sampling may cause consequential damage to the property.
- Energized systems (e.g. internal boiler components, elevators, mechanical or electrical components);
- Controlled products (e.g. stored chemicals, operational or process-related substances); and
- Materials not typically associated with construction (e.g. settled dust, spills, residual contamination from prior spills, etc.).

As per the original scope of work, concealed locations such as ceiling spaces above solid ceilings, shafts and chases are accessed via existing access panels. Our investigation does not include demolition of drywall or plaster walls to view concealed conditions. Structural items or exterior building finishes are not removed to determine the presence of concealed materials.

1.2 Methodology

Existing sampling data is reviewed and relied upon. If sampling is conducted, samples are collected at a rate that is in compliance with the requirements of local regulations and guidelines. The sampling strategy is also based on known ban dates and phase out dates of the use of asbestos; sampling of certain building materials is not conducted after specific construction dates. In addition, to be conservative, several years past these dates are added to account for some uncertainty in the exact start / finish date of construction and associated usage of ACM.

Materials listed as exclusions in the previous reports remain as exclusions. Sampling, assessment or verification of excluded materials was not conducted.

If present, the following materials are presumed to be asbestos-containing and are best sampled immediately prior to commencing renovation/disturbance:

- Roofing felts and tar, mastics;
- Floor levelling compound;
- Ceramic tile setting compound;
- Elevator and lift brakes;
- Electrical components or wiring within control centers, breakers, motors or lights, insulation on wiring;
- Moulded plastic components (laboratory bench tops);
- Refractory materials and insulations in boilers, incinerators and stacks;
- Insulation under metal clad boilers and vessels;
- Mechanical packing, ropes and gaskets;
- Vermiculite;
- Adhesives and duct mastics;
- Caulking and putties;
- Fibre-reinforced paints and coatings;
- Paper products;
- Soffit and fascia boards;
- Fire resistant doors;
- Metal clad finishes;
- Exterior cladding;
- Stucco, plaster or other cementitious parge coatings; and
- Vibration dampers on HVAC equipment.

2.0 ANALYSIS AND IDENTIFICATION OF ASBESTOS MATERIALS

Pinchin relies on the analytical results of prior surveys. Asbestos bulk samples (if required) are analyzed at an independent NVLAP accredited laboratory. Preliminary identification of asbestos fibres is made using polarized light microscopy, with confirmation of the presence and type of asbestos made by dispersion staining optical microscopy. The analysis is performed in accordance with Test Method EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials, June 1993. All independent laboratories used by Pinchin, including our laboratory, are certified under the National Voluntary Laboratory Accreditation Program (NVLAP) to perform asbestos analysis of bulk samples.

Analytical results are compared to the following criteria:

Jurisdiction	Friable	Non-Friable
Manitoba	0.1%[1]	1%
Federal	1%	1%

The asbestos analysis is completed using a stop positive approach. Only one result meeting the above regulated criteria is required to determine that a material is asbestos-containing, but all samples must be analyzed to conclusively determine that a material is non-asbestos. The laboratory stops analyzing samples from a homogeneous material once a result equal to or greater than the regulated criteria is detected in any of the samples of that material. All samples of a homogeneous material are analyzed if no asbestos is detected. In some cases, all samples are analyzed in the sample set regardless of result.

Where building materials are described in the report as “non-asbestos” or “does not contain asbestos”, this means that either no asbestos was detected by the analytical method utilized in any of the multiple samples or, if detected, it is below the lower limit of an asbestos-containing material in the applicable regulation.

Asbestos materials are evaluated in order to make recommendations regarding remedial work. The priority for remedial action is based on several factors:

- Friability (friable or non-friable);
- Condition (good, fair, poor, debris);
- Accessibility (ranking from accessible to all building users to inaccessible);
- Visibility (whether the material is obscured by other building components); and
- Efficiency of the work (for example, if damaged ACM is being removed in an area, it may be most practical to remove all ACM in the area even if it is in good condition).

For a complete description of the Evaluation Criteria and Basis of Recommendations, refer to Annex A.

Template: Methodology for Asbestos Re-Assessment, HAZ, January 10, 2020

METHODOLOGY ANNEX A EVALUATION CRITERIA

1.0 EVALUATION CRITERIA AND BASIS OF RECOMMENDATIONS

The detailed asbestos assessment provides information regarding the location, condition, accessibility and friability of the asbestos-containing materials (ACM). In order to make recommendations for compliance with current regulations, Pinchin developed the following criteria.

2.0 EVALUATION OF CONDITION

2.1 Friable Sprayed or Trowelled Fireproofing, Thermal Insulation and Texture Finishes (Surfacing Materials)

To evaluate the condition of ACM sprayed or trowelled on fireproofing, sprayed or trowelled thermal insulation (non-mechanical), or texture, decorative or acoustic finishes, the following criteria are applied:

Good	Surface of material shows no significant signs of damage, deterioration or delamination. Good condition includes unencapsulated or unpainted fireproofing or texture finishes, where no or limited delamination or damage is observed, or encapsulated fireproofing or texture finishes where the encapsulant or paint has been applied after the damage or fallout occurred.
Poor	A sprayed material that shows signs of significant damage or is significantly delaminating or deteriorating. This may be limited to surface delamination or some portion of the substrate may be exposed.

In Locations where damage exists in isolated areas, both good and poor condition may be applicable. The extent of each condition will be recorded. Fair condition is not utilized in the evaluation of ACM sprayed or trowelled fireproofing, sprayed or trowelled thermal insulation (non-mechanical), or texture, decorative or acoustic finishes.

The evaluation of the above products above ceilings may be limited by the number of observations and by building components such as ducts or full height walls that obstruct the above ceiling observations.

2.2 Friable Mechanical or Thermal System Insulation (TSI)

To evaluate the condition of mechanical insulation on vessels, boilers, breeching, ducts, pipes, fan units, equipment etc. the following criteria are applied:

Good	Insulation is completely covered in jacketing and exhibits no evidence of damage or deterioration. No insulation is exposed. Includes conditions where the jacketing has minor damage (i.e. scuffs or stains), but the jacketing is not penetrated.
Fair	Minor penetrating damage to jacketed insulation (cuts, tears, nicks, deterioration or delamination) or undamaged insulation that has never been jacketed. Insulation is exposed but not showing surface disintegration. The extent of missing insulation ranges from minor to none. Damage can be repaired.
Poor	Original insulation jacket is missing, damaged, deteriorated or delaminated. Insulation is exposed and significant areas have been dislodged. Damage cannot be readily repaired. Includes components where insulation may have been removed incompletely.

The evaluation of mechanical insulation may be limited by the number of observations made and building components such as ducts or full height walls that obstruct observations. It is often not possible to observe each foot of mechanical insulation from all angles.

2.3 Potentially Friable Materials and Miscellaneous Friable Materials

Potentially friable ACM are products that are basically non-friable while in place but have the potential to generate friable dust upon removal or if significantly disturbed without appropriate procedures. These products may become friable if damaged. Potentially friable materials include materials such as acoustic ceiling tiles and plaster. To evaluate the condition of potentially friable materials, the following criteria are applied:

Good	No significant damage or deterioration. Still serving its intended use as a building material or finish.
Fair	Showing signs of some cracking or breakage, but is not deteriorating (e.g. cracked plaster, broken but in place ceiling tile, missing tile or section of plaster etc.). The condition is such that it is still serving its intended use as a building material or finish but may require repair for mainly cosmetic purposes.
Poor	Significant deterioration or breaking apart of the material. Material has deteriorated to the point it is not serving its intended use as building material or finish. Material has deteriorated to a point it has become friable. Normally potentially friable ACM in Poor condition is not repairable and requires at least localized removal and replacement.

2.4 Non-Friable Materials

Non-friable ACM cover a wide range of products with a wide variation in their tendency to release dust or asbestos fibres to the air. Many of these materials, (particularly where the matrix is an unweathered bitumen, asphalt or tar material) do not release fibres except in very unusual circumstances or during significant disturbance (e.g. use of abrasive power tools). Others with a cementitious matrix (asbestos-cement products) can more readily release dust due to abrasion, demolition, weathering, etc. The potential for asbestos release from non-friable ACM is always lower than from friable ACM. To evaluate the condition of non-friable Materials, the following criteria are applied:

Good	No significant damage or deterioration. Still serving its intended use as a building material or finish.
Fair	Showing signs of some cracking or breakage but is not deteriorating (e.g. cracked vinyl floor tile, missing piece of tile or transite, etc.). The condition is such that it is still serving its intended use as a building material or finish but may require repair for mainly cosmetic purposes.
Poor	Significant deterioration or breaking apart of the material to the point at which it cannot be repaired, and it will require at least local removal. Material has deteriorated to the point it is not serving its intended use as building material or finish. Material may have deteriorated to a point where traffic or disturbance may cause it to become friable.

2.5 Evaluation of ACM Debris

The identification of the exact location or presence of debris on the top of ceiling tiles is limited by the number of observations made and the presence of building components such as ducts or full height walls that obstruct observations.

The presence of fallen or dislodged ACM is noted separately from the ACM source and is referred to as Debris. Debris may be friable if from a friable ACM source or a badly deteriorated non-friable ACM source. Debris may also be non-friable (such as fallen pieces of transite sheet or mastic fittings, or broken, dislodged floor tiles).

Debris	Debris may be friable or non-friable but is always identified as debris.

2.6 Evaluation of Presumed Asbestos-Containing Material (PACM)

Presumed asbestos-containing materials (PACM), are building materials that may contain asbestos but were not sampled or analyzed due to inaccessibility or the need to perform destructive testing to obtain a reasonable sample set. Evaluation of these materials is based on the assumption that these PACM are asbestos-containing.

A list of PACM is provided in the report and they are generally not included in the detailed room by room reports. Typically, they are excluded because they are inaccessible or present in very small quantities. If PACM are evaluated, Pinchin uses the criteria that correspond with the type (and friability) of the material listed above.

3.0 EVALUATION OF ACCESSIBILITY

The accessibility of building materials known or suspected of being ACM is rated according to the following criteria:

Access (A)	Common areas of the building within reach of all building users (approximately 8 '-9' from floor or standard ceiling height). Includes other areas where occupant activities may result in disturbance of material that is not normally within reach from floor level, but may be disturbed by common activities (e.g. gymnasiums, workshops, warehouses)
Access (B)	Areas of the building accessed primarily by Maintenance/Caretaking/Janitorial Staff and within reach without use of a ladder. Includes areas within reach in Boiler Rooms, Electrical Rooms, Janitors Closets, Elevator Rooms, Mechanical Rooms, etc. Includes materials within reach from fixed ladders or catwalks, mezzanines, and accessible pipe chases.
Access (C) and Visible	Areas of the building above 8' - 9' where use of a ladder or scaffold is required to reach the ACM. Only includes ACM that are visible to view without the removal or opening of other building components such as ceiling tiles or service access panels. Visible column on HMIS sheets will say YES.
Access (C) and not Visible	Areas of the building above 8' - 9' where use of a ladder or scaffold is required to reach the ACM. Includes ACM that are not visible to view and require the removal of a building component to see, such as ceilings tiles or access panels to view and access. Includes rarely entered crawl spaces, attic spaces, etc. Observations will be limited to the extent visible from the access points. Visible column on HMIS sheets will say NO.
Access (D)	Areas of the building behind inaccessible solid ceiling systems, walls or equipment etc. where demolition of the ceiling, wall or equipment etc. is required to reach the ACM. Material inaccessible due to height or location or is only accessed under unusual situations. Evaluation of condition and extent of ACM is limited or impossible, depending on the surveyor's ability to visually examine materials in Access D.

4.0 ACTION MATRIX AND DEFINITIONS

Pinchin's evaluation of the viability of a specific asbestos control option is based on the consideration of the friability, condition, accessibility and visibility of a material. The logic used is that damaged ACM located in an area frequently accessed by all building occupants is of a higher priority than damaged ACM located in an infrequently accessed service area. The action matrix considers the potential for fibre release (primarily from friable ACM) and the possible concerns from regulatory bodies and many building occupants to all damaged ACM (including non-friable).

In any building with asbestos, many current regulations require an Asbestos Management Program be implemented. Depending on the condition and the accessibility, more active measures such as repair or removal may be recommended. The following matrix provides guidance for recommended Actions in the absence of renovation or demolition. In the event of construction or maintenance activity which will disturb ACM more aggressive control or removal will be required.

4.1 Action Matrix

The following tables outline the action decisions based on the relationship of assessed factors. Table I applies to friable ACM. Table II applies to non-friable ACM.

Table I Decision Matrix for Friable ACM

	Condition			
Access	**Good**	**Fair**	**Poor**	**Debris**
(A)	Action 5[1]	Action 5[2]	Action 3	Action 1
(B)	Action 7	Action 6[3]	Action 3	Action 1
(C) Visible	Action 7	Action 6	Action 3	Action 2
(C) Not Visible	Action 7	Action 7	Action 4	Action 2
(D)	Action 7	Action 7	Action 7	Action 7

Table II Decision Matrix for Potentially Friable and Non-Friable ACM

	Condition			
Access	**Good**	**Fair**	**Poor**	**Debris**
(A)	Action 7	Action 7[4]	Action 3	Action 1
(B)	Action 7	Action 7	Action 3	Action 1
(C) Visible	Action 7	Action 7	Action 4	Action 2
(C) Not Visible	Action 7	Action 7	Action 4	Action 2
(D)	Action 7	Action 7	Action 7	Action 7

[1] If friable ACM in access (A)/Good condition is not proactively removed Action 7 (Manage) is recommended.
[2] If friable ACM in access (A)/Fair condition is not proactively removed repair is recommended.
[3] If friable ACM in access (B)/Fair condition is likely to be disturbed after repair proactive removal is recommended.
[4] Action 7 is recommended for all non-friable ACM in Fair condition however some clients may wish to repair or take some action primarily for cosmetic reasons

4.2 Action Definitions

The following are the definitions in the Action Matrix Table presented above:

Action Definitions	
Action 1	Clean-Up of ACM Debris Restrict access that is likely to cause a disturbance of the ACM Debris and clean up ACM Debris. Utilize appropriate asbestos precautions.
Action 2	Precautions for Access Which may Disturb ACM Debris Use appropriate means to isolate the debris or to limit entry to the area which may disturb the material. At locations where ACM Debris can remain in place in lieu of removal or clean-up (e.g. Debris on top of ceiling tiles or behind lockable door), Utilize appropriate asbestos precautions to enter the area if this will disturb debris. The precautions will be required until the ACM Debris has been cleaned up.
Action 3	ACM Removal Remove ACM. Utilize asbestos procedures appropriate to the scope of the removal work. Until it is removed, restrict access to the material so it is not disturbed.
Action 4	Precautions for Work Which may Disturb ACM in Poor Condition. Utilize appropriate asbestos precautions if ACM may be disturbed by work on or near ACM. This does not require restricting access to the area, only control of work which may contact or disturb the ACM. Removal is the only viable option if work will disturb ACM.
Action 5	Proactive ACM Removal Remove friable ACM where the presence of friable asbestos in Good condition is not desirable. If friable ACM in Fair condition is not removed, then Repair friable ACM.
Action 6	ACM Repair Repair friable ACM in Fair condition which is not likely to be damaged again or disturbed by normal use of the area or room. Pinchin recommends proactive removal if friable ACM is likely to be damaged or disturbed during normal use of the area or room
Action 7	Asbestos Management Program with Routine Surveillance Implement an Asbestos Management Program, including routine surveillance of ACM. Reassess materials regularly (typically once per year).

Master Template: Methodology Annex A to Appendix I Evaluation Criteria, HAZ, January 10, 2020

APPENDIX II

Location Summary Report

Client:City of Winnipeg Water and Waste Dept **Site: 2230 Main Street, Winnipeg, MB**
Building Name: Secondary Clarifiers
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Main Gallery A	1500	Main	A	
2	Tanks 23 - 26	3600	Main	A	Mortar on hollow core walls is presumed asbestos containing.
3	Tanks 19 - 22	3600	Main	A	Mortar on hollow core walls is presumed asbestos containing.
4	Gallery B	1500	Main	A	
5	Tanks 1 - 6	48000	Main	A	Mortar on hollow core walls is presumed asbestos containing.
6	Fan House	5400	Main	A	Mortar on hollow core walls is presumed asbestos containing.
7	Gallery C	1500	Main	A	Mortar on hollow core walls is presumed asbestos containing.
8	Tanks 15 - 18	3600	Main	A	Mortar on hollow core walls is presumed asbestos containing.
9	Tanks 11 - 14	3600	Main	A	Mortar on hollow core walls is presumed asbestos containing.
10	Gallery D	1500	Main	A	Mortar on hollow core walls is presumed asbestos containing.
11	Tanks 7-10	32000	Main	A	
12	Gym	1000	Second	A	Mortar on hollow core walls is presumed asbestos containing.
13	Scum Gallery	3840	Basement	A	
14	North/South Gallery	2400	Basement	A	
15	Southwest Gallery #8	1220	Basement	A	
16	RAS Gallery	12500	Basement	A	
17	Southeast Gallery #7	1220	Basement	A	
18	Stairwell	160	Basement-Reactor	A	
19	East Gallery	1920	Basement-Reactor	A	
20	South Gallery	2400	Basement-Reactor	A	
21	Junction Chamber	900	Main-Reactor	A	
22	Foyer	160	Main-Reactor	A	Mortar on hollow core walls is presumed asbestos containing.
23	Stairwell	160	Main-Reactor	A	Mortar on hollow core walls is presumed asbestos containing.
24	Control Room	1100	Main-Reactor	A	
25	Electrical Room	1100	Main-Reactor	A	Mortar on hollow core walls is presumed asbestos containing.
26	Access Building	100	Main-Reactor	A	Mortar on hollow core walls is presumed asbestos containing.
27	Computer Room	550	Main-Reactor	A	Mortar on hollow core walls is presumed asbestos containing.
28	South Basement	9900	Basement-Blower	A	Mortar on hollow core walls is presumed asbestos containing.
29	Storage	2700	Basement-Blower	A	Mortar on hollow core walls is presumed asbestos containing.
30	North Basement	9900	Basement-Blower	A	Mortar on hollow core walls is presumed asbestos containing.
31	Mechanical Shop	5000	Main-Blower	A	No access above the mechanically fastened ceiling tiles. Mortar on hollow core walls is presumed asbestos containing.
32	Foyer	400	Main-Blower	A	Mortar on hollow core walls is presumed asbestos containing.
33	Switch Gear Room	2550	Main-Blower	A	Mortar on hollow core walls is presumed asbestos containing.
34	Hallway	1500	Main-Blower	A	Mortar on hollow core walls is presumed asbestos containing.
35	Storage Room	400	Main-Blower	A	Mortar on hollow core walls is presumed asbestos containing.
36	Office	64	Main-Blower	A	Mortar on hollow core walls is presumed asbestos containing.
37	Electrical Room	400	Main-Blower	A	Mortar on hollow core walls is presumed asbestos containing.
38	Instrument Room	400	Main-Blower	A	Mortar on hollow core walls is presumed asbestos containing.
39	PCU Room	1600	Main-Blower	A	
40	Storage	50	Main-	A	Mortar on hollow core walls is presumed asbestos containing.

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
			Blower		
41	Office	300	Main-Blower	A	Mortar on hollow core walls is presumed asbestos containing.
42	Hallway	200	Main-Blower	A	Mortar on hollow core walls is presumed asbestos containing.
43	Women's Washroom	600	Main-Blower	A	Setting compound on ceramic floor tiles is presumed asbestos containing.
44	Men's Washroom	350	Main-Blower	A	Setting compound on ceramic floor/ wall tiles is presumed asbestos containing.
45	Storage	200	Main-Blower	A	
46	Storage	300	Main-Blower	A	
47	Transformer Room	360	Main-Blower	A	Mortar on hollow core walls is presumed asbestos containing.
48	Vestibule	120	Main-Blower	A	Mortar on hollow core walls is presumed asbestos containing.
49	Fan Room	225	Second-Blower	A	Mortar on hollow core walls is presumed asbestos containing.
50	Lecture Room	400	Second-Blower	A	Mortar on hollow core walls is presumed asbestos containing.
51	Office	420	Second-Blower	A	Mortar on hollow core walls is presumed asbestos containing.
52	Hallway	1100	Second-Blower	A	Mortar on hollow core walls is presumed asbestos containing.
53	Office	420	Second-Blower	A	Mortar on hollow core walls is presumed asbestos containing.
54	Lunchroom	720	Second-Blower	A	Mortar on hollow core walls is presumed asbestos containing.
55	Men's Washroom	1600	Second-Blower	A	Mortar on hollow core walls is presumed asbestos containing.
56	Storage	100	Second-Blower	A	Mortar on hollow core walls is presumed asbestos containing.
57	Storage	100	Second-Blower	A	Mortar on hollow core walls is presumed asbestos containing.
58	Ventilation Room	1600	Second-Blower	A	Mortar on hollow core walls is presumed asbestos containing.
59	Board Room	2100	Second-Blower	A	
60	Secondary Fan Building Exterior	0	Ext	A	Roof needs to be tested prior to any renovation or demolition activities.
61	Secondary Clarifier Building Exterior, room no. Exterior	0	Main	A	Roof needs to be tested prior to any renovation or demolition activities.
62	Secondary Clarifier Office Building	0	Main	A	Roof needs to be tested prior to any renovation or demolition activities.

APPENDIX III

Asbestos Material Summary Report / Sample Log

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

PINCHIN
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Client:City of Winnipeg Water and Waste Dept **Site: 2230 Main Street, Winnipeg, MB** **Building Name: Secondary Clarifiers** **Surveyor: Jason Combe** **Survey Date: 2006-04-20**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	S0001	PIPING ONE, PIPING TWO, PIPING FIVE | PARGING OVER FIBREGLASS | PARGING - FITTING - HWR - LOC1	1,11	A	0	0	17	0	None Detected	No
Asbestos	S0002	PIPING, PIPING ONE, PIPING THREE, PIPING FOUR, PIPING FIVE | PARGING OVER FIBREGLASS | PARGING - FITTING - RWL - LOC 2	1,2,3,4,5,6,7,8,9,10,11,12,21,31,49,54,55,58	A	2	0	146	0	Chrysotile	Yes
Asbestos	S0003	MECHANICAL EQUIPMENT | FIBREGLASS W/PARGING | PARGING - DUCT - FAI - LOC 7	1,4,7,10,15,17,30,58	A	0	231	0	0	Chrysotile	Yes
Asbestos	S0004	CEILING | CEILING TILES (LAY-IN) | CEILING TILE - LOC 25 - AT -1	18,22,23,24,25,26,27,56,57	A	0	3530	0	0	None Detected	No
Asbestos	S0005	DUCT | PARGING OVER FIBREGLASS | PARGING - DUCT - FAI - LOC 30	30	A	0	0	11	0	None Detected	No
Asbestos	S0006	CEILING | CEILING TILES (LAY-IN) | CEILING TILE - LOC 34 - AT-2	32,33,34,41,42,43,44,45,46,48,50,51,52,53,54 55	A	0	11180	0	0	None Detected	No
Asbestos	V0007	CEILING | CEILING TILES (LAY-IN) | CEILING TILE - LOC 39 - AT-3	37,38,39	A	0	2400	0	0		No
Asbestos	S0008	PIPING, PIPING FOUR | SWEAT WRAP PIPE INSULATION | SWEATWRAP - STRAIGHT RUN - RWL - LOC 49	31,49,54,55	A	55	0	0	0	None Detected	No
Asbestos	S0009	PIPING FOUR | PARGING OVER FIBREGLASS | PARGING CEMENT ON PIPE FITTING, HOT WATER SUPPLY, MAIN GALLERY A (LOCATION 1), MAIN FLOOR, SECONDARY CLARIFIER BLDG	1	A	0	0	1	0	None Detected	No
Asbestos	S0010	WALL | PLASTER | STUCCO, EXTERIOR WALL BY SECONDARY FAN BLDG (SAMPLED OCTOBER 16, 2014 AS S0012 A TO C)	60	A	0	100	0	0	None Detected	No
Asbestos	S0011	WALL | MASTIC, BLACK | BLACK TAR MASTIC ON BLACK FOAM, EXTERIOR WALL (SAMPLED OCTOBER 16, 2014 AS S0013 A TO C)	61	A	0	0	0	1400	Chrysotile	Yes
Asbestos	S0012	WALL | PLASTER | PLASTER, EXTERIOR WALL BY SECONDARY CLARIFIER OFFICE BLDG (SAMPLED OCTOBER 16, 2014 AS S0015 A TO C)	62	A	0	0	0	100	None Detected	No
Asbestos	V9000	PIPING | AIRCELL	54,55	A	24	0	0	0	Confirmed Asbestos	Yes
Asbestos	V9500	FLOOR | MORTAR |	43,44	A	0	0	0	100	Presumed Asbestos	Yes
Asbestos	V9500	FLOOR | PARGING CEMENT |	30	A	0	0	1	0	Presumed Asbestos	Yes
Asbestos	V9500	PIPING | PARGING CEMENT |	24,27	A	0	0	12	0	Presumed Asbestos	Yes
Asbestos	V9500	PIPING | PARGING OVER FIBREGLASS |	14,15,16,19,20,21,26,28	A	0	0	168	0	Presumed Asbestos	Yes

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	V9500	PIPING ONE | PARGING OVER FIBREGLASS |	5,17,23,29,30,33,46,49,58	A	0	0	69	0	Presumed Asbestos	Yes
Asbestos	V9500	PIPING TWO | PARGING OVER FIBREGLASS |	1,4,5,7,10,15,17,21,23,29,30,33,46,49,58	A	0	0	110	0	Presumed Asbestos	Yes
Asbestos	V9500	PIPING THREE | PARGING OVER FIBREGLASS |	1,4,7,10,15,17,21,28,30,33,49,58	A	0	0	80	0	Presumed Asbestos	Yes
Asbestos	V9500	PIPING FOUR | PARGING OVER FIBREGLASS |	1,4,7,10,17,30,58	A	0	0	115	0	Presumed Asbestos	Yes
Asbestos	V9500	PIPING FIVE | PARGING OVER FIBREGLASS |	1,4,7,10,15	A	0	0	70	0	Presumed Asbestos	Yes
Asbestos	V9500	WALL | DRYWALL (NO COMPOUND) |	29	A	0	0	0	0	Presumed Asbestos	Yes
Asbestos	V9500	WALL | MORTAR	2,3,5,6,7,8,9,10,12,22,23,24,25,26,27,28,29 30,31,32,33,34,35,36,37,38,40,41,42,44,46,47 48,49,50,51,52,53,54,55,56,57,58	A	0	0	0	93	Presumed Asbestos	Yes
Asbestos	V0000	FLOOR | VINYL SHEET FLOORING |	32,34,36,37,38,39,40,41,42,45,50,51,52,53,54 56,57	A	0	8374	0	0	Non Asbestos	No
Asbestos	V0000	PIPING | FIBREGLASS |	59	A	0	0	0	100	Non Asbestos	No
Asbestos	V0000	WALL | CLAY TILE (BLOCK) |	62	A	0	0	0	100	Non Asbestos	No
Asbestos	V0000	WALL | CONCRETE (PRECAST) |	60	A	0	0	0	100	Non Asbestos	No
Asbestos	V0000	WALL | STEEL	60,61,62	A	0	0	0	100	Non Asbestos	No

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

APPENDIX IVI

HMIS Data Report

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

ALL DATA REPORT

PINCHIN
1.855.PINCHIN www.pinchin.com

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #1 : Main Gallery A, Phase: A **Floor: Main** **Room #:** **Area (sqft): 1500**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Fresh Air Intake	Abated Material	Surface	Canvas	C	Y					SF	S0003	[None]	50-75%	[Abated]
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Mechanical Equipment	Exchanger	Fibreglass w/Parging	Surface	Canvas	B	Y		25			SF	V0003	Chrysotile	50-75%	Confirmed Asbestos(F)
Other	Not Found	NI	No Information	NI											
Piping one	Rain Water Leader	Foamglas	Straight	Canvas	C	Y									
Piping one	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		10			EA	V0002	Chrysotile	25-50%	Confirmed Asbestos(F)
Piping two		Fibreglass	Straight	Canvas	C	Y									
Piping two		Parging over Fibreglass	Fitting	Canvas	C	Y		4			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping three		Fibreglass	Straight	Canvas	C	Y									
Piping three		Parging over Fibreglass	Fitting	Canvas	C	Y		6			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping four	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping four	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		1			EA	S0009	None Detected	N.D.	None
Piping four	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		10			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping five	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping five	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		1			EA	S0001	None Detected	N.D.	None
Piping five	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		8			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #2 : Tanks 23 - 26, Phase: A **Floor: Main** **Room #:** **Area (sqft): 3600**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Foamglas	No Information	NI											
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		10			EA	S0002	Chrysotile	25-50%	Confirmed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Concrete (poured)	No Information	NI											

Mortar on hollow core walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #3 : Tanks 19 - 22, Phase: A **Floor: Main** **Room #:** **Area (sqft): 3600**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Foamglas	No Information	NI											
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		16			EA	V0002	Chrysotile	25-50%	Confirmed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Concrete (poured)	No Information	NI											

Mortar on hollow core walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #4 : Gallery B, Phase: A **Floor: Main** **Room #:** **Area (sqft): 1500**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Fresh Air Intake	Abated Material	Surface	Canvas	C	Y					SF	V0003	[None]	50-75%	[Abated]
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Mechanical Equipment	Exchanger	Fibreglass w/Parging	Surface	Canvas	B	Y		24			SF	V0003	Chrysotile	50-75%	Confirmed Asbestos(F)
Other	Not Found	NI	No Information	NI											
Piping one	Rain Water Leader	Foamglas	Straight	Canvas	C	Y									
Piping one	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		2			EA	V0002	Chrysotile	25-50%	Confirmed Asbestos(F)
Piping two		Fibreglass	Straight	Canvas	C	Y									
Piping two		Parging over Fibreglass	Fitting	Canvas	C	Y		7			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping three		Fibreglass	Straight	Canvas	C	Y									
Piping three		Parging over Fibreglass	Fitting	Canvas	C	Y		7			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping four	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping four	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		12			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping five	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping five	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		12			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #5 : Tanks 1 - 6, Phase: A **Floor: Main** **Room #:** **Area (sqft): 48000**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Foamglas	No Information	NI											
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		37			EA	V0002	Chrysotile	25-50%	Confirmed Asbestos(F)
Piping one		Fibreglass	Straight	NI											
Piping one		Parging over Fibreglass	Fitting	Canvas	C	Y		5			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping two		Fibreglass	Straight	NI											
Piping two		Parging over Fibreglass	Fitting	Canvas	C	Y		4			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Concrete (poured)	No Information	NI											

Mortar on hollow core walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #6 : Fan House, Phase: A **Floor: Main** **Room #:** **Area (sqft): 5400**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Foamglas	No Information	NI											
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		1			EA	V0002	Chrysotile	25-50%	Confirmed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Concrete (poured)	No Information	NI											

Mortar on hollow core walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #7 : Gallery C, Phase: A **Floor: Main** **Room #:** **Area (sqft): 1500**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Fresh Air Intake	Abated Material	Surface	Canvas	C	Y					SF	S0003	[None]	50-75%	[Abated]
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Mechanical Equipment	Exchanger	Fibreglass w/Parging	Surface	Canvas	B	Y		25			SF	V0003	Chrysotile	50-75%	Confirmed Asbestos(F)
Other	Not Found	NI	No Information	NI											
Piping one	Rain Water Leader	Foamglas	Straight	Canvas	C	Y									
Piping one	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		4			EA	V0002	Chrysotile	25-50%	Confirmed Asbestos(F)
Piping two		Fibreglass	Straight	Canvas	C	Y									
Piping two		Parging over Fibreglass	Fitting	Canvas	C	Y		7			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping three		Fibreglass	Straight	Canvas	C	Y									
Piping three		Parging over Fibreglass	Fitting	Canvas	C	Y		8			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping four	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping four	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		16			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping five	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping five	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		17			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Concrete (poured)	No Information	NI											

Mortar on hollow core walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #8 : Tanks 15 - 18, Phase: A **Floor: Main** **Room #:** **Area (sqft): 3600**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Foamglas	No Information	NI											
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		6			EA	V0002	Chrysotile	25-50%	Confirmed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Concrete (poured)	No Information	NI											

Mortar on hollow core walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #9 : Tanks 11 - 14, Phase: A **Floor: Main** **Room #:** **Area (sqft): 3600**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Foamglas	No Information	NI											
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		10			EA	V0002	Chrysotile	25-50%	Confirmed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Concrete (poured)	No Information	NI											

Mortar on hollow core walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #10 : Gallery D, Phase: A **Floor: Main** **Room #:** **Area (sqft): 1500**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Fresh Air Intake	Abated Material	Surface	Canvas	C	Y					SF	V0003	[None]	50-75%	[Abated]
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Mechanical Equipment	Exchanger	Fibreglass w/Parging	Surface	Canvas	B	Y		25			SF	V0003	Chrysotile	50-75%	Confirmed Asbestos(F)
Other	Not Found	NI	No Information	NI											
Piping one	Rain Water Leader	Foamglas	Straight	Canvas	C	Y									
Piping one	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		5			EA	V0002	Chrysotile	25-50%	Confirmed Asbestos(F)
Piping two		Fibreglass	Straight	Canvas	C	Y									
Piping two		Parging over Fibreglass	Fitting	Canvas	C	Y		7			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping three		Fibreglass	Straight	Canvas	C	Y									
Piping three		Parging over Fibreglass	Fitting	Canvas	C	Y		8			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping four	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping four	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		10			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping five	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping five	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		10			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Concrete (poured)	No Information	NI											

Mortar on hollow core walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #11 : Tanks 7-10, Phase: A **Floor: Main** **Room #:** **Area (sqft): 32000**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Foamglas	No Information	NI											
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		24			EA	V0002	Chrysotile	25-50%	Confirmed Asbestos(F)
Piping one		Fibreglass	Straight	NI											
Piping one		Parging over Fibreglass	Fitting	Canvas	C	Y		7			EA	V0001	None Detected	N.D.	None
Piping two		Fibreglass	Straight	NI											
Piping two		Parging over Fibreglass	Fitting	Canvas	C	Y		9			EA	V0001	None Detected	N.D.	None
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #12 : Gym, Phase: A **Floor: Second** **Room #:** **Area (sqft): 1000**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Fibreglass	Straight	Canvas	C	Y									
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		6			EA	V0002	Chrysotile	25-50%	Confirmed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Concrete (poured)	No Information	NI											

Mortar on hollow core walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #13 : Scum Gallery, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 3840**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #14 : North/South Gallery, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 2400**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		8			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		9			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #15 : Southwest Gallery #8, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 1220**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Exchanger	Fibreglass w/Parging	Surface	Canvas	B	Y		36			SF	V0003	Chrysotile	50-75%	Confirmed Asbestos(F)
Other	Debris	Abated Material	Debris		A	Y					SF	V0003	[None]	50-75%	[Abated]
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		34			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping two		Fibreglass	Straight	Canvas	C	Y									
Piping two		Parging over Fibreglass	Fitting	Canvas	C	Y		9			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping three		Fibreglass	Straight	Canvas	C	Y									
Piping three		Parging over Fibreglass	Fitting	Canvas	C	Y		4			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping four	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping five	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping five	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		23			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #16 : RAS Gallery, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 12500**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		16			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		16			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #17 : Southeast Gallery #7, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 1220**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Exchanger	Fibreglass w/Parging	Surface	Canvas	B	Y		36			SF	V0003	Chrysotile	50-75%	Confirmed Asbestos(F)
Other	Not Found	NI	No Information	NI											
Piping one	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping one	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		8			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping two		Fibreglass	Straight	Canvas	C	Y									
Piping two		Parging over Fibreglass	Fitting	Canvas	C	Y		7			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping three		Fibreglass	Straight	Canvas	C	Y									
Piping three		Parging over Fibreglass	Fitting	Canvas	C	Y		6			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping four	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping four	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		16			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #18 : Stairwell, Phase: A **Floor: Basement-Reactor** **Room #:** **Area (sqft): 160**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		160			SF	V0004	None Detected	N.D.	None
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Masonry	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #19 : East Gallery, Phase: A **Floor: Basement-Reactor** **Room #:** **Area (sqft): 1920**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		10			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		10			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #20 : South Gallery, Phase: A **Floor: Basement-Reactor** **Room #:** **Area (sqft): 2400**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		19			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		19			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #21 : Junction Chamber, Phase: A **Floor: Main-Reactor** **Room #:** **Area (sqft): 900**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		7			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping one	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping two	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping two	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		9			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping three	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		7			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping three	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		2			EA	V0002	Chrysotile	25-50%	Confirmed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #22 : Foyer, Phase: A **Floor: Main-Reactor** **Room #:** **Area (sqft): 160**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		160			SF	V0004	None Detected	N.D.	None
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	No Information	NI											

Mortar on hollow core walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #23 : Stairwell, Phase: A **Floor: Main-Reactor** **Room #:** **Area (sqft): 160**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		160			SF	V0004	None Detected	N.D.	None
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping one	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping one	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		7			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping two	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping two	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		7			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	No Information	NI											

Mortar on hollow core walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #24 : Control Room, Phase: A **Floor: Main-Reactor** **Room #:** **Area (sqft): 1100**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		1100			SF	V0004	None Detected	N.D.	None
Duct	Return Air	Not Insulated	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight												
Piping	Heating Water Return	Parging Cement	Fitting	Canvas	C	N		3			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight												
Piping	Heating Water Supply	Parging Cement	Fitting	Canvas	C	N		3			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #25 : Electrical Room, Phase: A **Floor: Main-Reactor** **Room #:** **Area (sqft): 1100**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		1100			SF	S0004	None Detected	N.D.	None
Duct	Return Air	Not Insulated	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Other	Electrical Panel	Not Insulated	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	No Information	NI											

Mortar on hollow core walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #26 : Access Building, Phase: A **Floor: Main-Reactor** **Room #:** **Area (sqft): 100**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		100			SF	V0004	None Detected	N.D.	None
Duct	Return Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Exhaust	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		5			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		5			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping one	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping two	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	No Information	NI											

Mortar on hollow core walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #27 : Computer Room, Phase: A **Floor: Main-Reactor** **Room #:** **Area (sqft): 550**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		550			SF	V0004	None Detected	N.D.	None
Duct	Return Air	Not Insulated	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight												
Piping	Heating Water Return	Parging Cement	Fitting	Canvas	C	N		3			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight												
Piping	Heating Water Supply	Parging Cement	Fitting	Canvas	C	N		3			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	No Information	NI											

Mortar on hollow core walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #28 : South Basement, Phase: A **Floor: Basement-Blower** **Room #:** **Area (sqft): 9900**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment		Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		6			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		4			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping one	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping two	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping three		Fibreglass	Straight	Canvas	C	Y									
Piping three		Parging over Fibreglass	Fitting	Canvas	C	Y		4			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Concrete (poured)	No Information	NI											

Mortar on hollow core walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #29 : Storage, Phase: A **Floor: Basement-Blower** **Room #:** **Area (sqft): 2700**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping one		Fibreglass	Straight	Canvas	C	Y									
Piping one		Parging over Fibreglass	Fitting	Canvas	C	Y		4			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping two	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping two	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		20			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Drywall (no compound)										V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Mortar on hollow core walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #30 : North Basement, Phase: A **Floor: Basement-Blower** **Room #:** **Area (sqft): 9900**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Fresh Air Intake	Fibreglass	Surface	Canvas	C	Y									
Duct		Parging over Fibreglass	Fitting	Canvas	C	Y		11			EA	S0005	None Detected	N.D.	None
Duct	Supply Air	Not Insulated	No Information	NI											
Floor[1]	Debris	Parging Cement								1	EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Mechanical Equipment	Exchanger	Fibreglass w/Parging	Surface	Canvas	B	Y		17			SF	V0003	Chrysotile	50-75%	Confirmed Asbestos(F)
Mechanical Equipment	Exchanger	Fibreglass w/Parging	Surface	Canvas	B	Y		31			SF	V0003	Chrysotile	50-75%	Confirmed Asbestos(F)
Other	Not Found	NI	No Information	NI											
Piping one	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping one	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		32			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping two		Fibreglass	Straight	Canvas	C	Y									
Piping two		Parging over Fibreglass	Fitting	Canvas	C	Y		5			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping three		Fibreglass	Straight	Canvas	C	Y									
Piping three		Parging over Fibreglass	Fitting	Canvas	C	Y		15			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping four	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping four	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		43			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Concrete (poured)	No Information	NI											

Mortar on hollow core walls is presumed asbestos containing.
1 - Debris is cut section of pipe with 1 fitting

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #31 : Mechanical Shop, Phase: A **Floor: Main-Blower** **Room #:** **Area (sqft): 5000**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Metal	No Information	NI											
Duct	Return Air	Not Insulated	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Floor		Wood	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	D	N		6			EA	V0002	Chrysotile	25-50%	Confirmed Asbestos(F)
Piping	Rain Water Leader	Sweat Wrap pipe insulation	Straight	Canvas	D	N		24			LF	V0008	None Detected	N.D.	None
Structure	Not Accessible	NI	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	No Information	NI											

No access above the mechanically fastened ceiling tiles. Mortar on hollow core walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #32 : Foyer, Phase: A **Floor: Main-Blower** **Room #:** **Area (sqft): 400**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		400			SF	V0006	None Detected	N.D.	None
Duct	Not Found	NI	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		400			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	No Information	NI											

Mortar on hollow core walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #33 : Switch Gear Room, Phase: A **Floor: Main-Blower** **Room #:** **Area (sqft): 2550**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		2550			SF	S0006	None Detected	N.D.	None
Duct	Return Air	Not Insulated	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Electrical Panel	Not Insulated	No Information	NI											
Piping one	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping one	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		2			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping two	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping two	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		4			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping two	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	N		5			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping three		Fibreglass	Straight	Canvas	C	Y									
Piping three		Parging over Fibreglass	Fitting	Canvas	C	Y		2			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	No Information	NI											

Mortar on hollow core walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #34 : Hallway, Phase: A **Floor: Main-Blower** **Room #:** **Area (sqft): 1500**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		1500			SF	V0006	None Detected	N.D.	None
Duct	Return Air	Not Insulated	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		1500			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	No Information	NI											

Mortar on hollow core walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #35 : Storage Room, Phase: A **Floor: Main-Blower** **Room #:** **Area (sqft): 400**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Steel Truss	Metal	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	No Information	NI											

Mortar on hollow core walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #36 : Office, Phase: A **Floor: Main-Blower** **Room #:** **Area (sqft): 64**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Drywall (no compound)			A			100			%	V9100			
Duct	Not Found	NI	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		64			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Not Accessible	NI	No Information	NI											
Wall		Drywall (no compound)			A			100			%	V9100			
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Mortar on hollow core walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #37 : Electrical Room, Phase: A **Floor: Main-Blower** **Room #:** **Area (sqft): 400**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		400			SF	V0007			Not Entered
Duct	Return Air	Not Insulated	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		400			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	All	Not Insulated	No Information	NI											
Structure	Steel Truss	Metal	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	No Information	NI											

Mortar on hollow core walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #38 : Instrument Room, Phase: A **Floor: Main-Blower** **Room #:** **Area (sqft): 400**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		400			SF	V0007			Not Entered
Duct	Return Air	Not Insulated	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		400			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Steel Truss	Metal	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	No Information	NI											

Mortar on hollow core walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #39 : PCU Room, Phase: A **Floor: Main-Blower** **Room #:** **Area (sqft): 1600**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		1600			SF	V0007			Not Entered
Duct	Return Air	Not Insulated	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		1600			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Steel Truss	Metal	No Information	NI											
Wall		Masonry	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #40 : Storage, Phase: A **Floor: Main-Blower** **Room #:** **Area (sqft): 50**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Metal	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		50			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	No Information	NI											

Mortar on hollow core walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #41 : Office, Phase: A **Floor: Main-Blower** **Room #:** **Area (sqft): 300**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		300			SF	V0006	None Detected	N.D.	None
Duct	Return Air	Not Insulated	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		300			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y					%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	No Information	NI											

Mortar on hollow core walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #42 : Hallway, Phase: A **Floor: Main-Blower** **Room #:** **Area (sqft): 200**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		200			SF	V0006	None Detected	N.D.	None
Duct	Return Air	Not Insulated	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		200			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	No Information	NI											

Mortar on hollow core walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #43 : Women's Washroom, Phase: A **Floor: Main-Blower** **Room #:** **Area (sqft): 600**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		600			SF	V0006	None Detected	N.D.	None
Duct	Return Air	Not Insulated	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor	All	Mortar	ALL	Ceramic Tiles	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Floor		Ceramic Tiles	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Drywall (no compound)			A			100			%	V9100	[Presumed Asbestos]		[Presumed Asbestos]
Wall		Ceramic Tiles	No Information	NI											

Setting compound on ceramic floor tiles is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #44 : Men's Washroom, Phase: A **Floor: Main-Blower** **Room #:** **Area (sqft): 350**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		350			SF	V0006	None Detected	N.D.	None
Duct	Return Air	Not Insulated	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Floor		Ceramic Tiles	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Ceramic Tiles	No Information	NI											

Setting compound on ceramic floor/ wall tiles is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #45 : Storage, Phase: A **Floor: Main-Blower** **Room #:** **Area (sqft): 200**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		200			SF	V0006	None Detected	N.D.	None
Duct	Not Found	NI	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		200			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Masonry	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #46 : Storage, Phase: A **Floor: Main-Blower** **Room #:** **Area (sqft): 300**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		300			SF	S0006	None Detected	N.D.	None
Duct	Return Air	Not Insulated	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Heating Water Tank	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping one	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping one	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	N		2			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping two	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping two	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		2			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping two	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	N		1			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Mortar		Masonry				100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #47 : Transformer Room, Phase: A **Floor: Main-Blower** **Room #:** **Area (sqft): 360**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Return Air	Not Insulated	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	All	Fibreglass	No Information	Canvas	C	Y									
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	No Information	NI											

Mortar on hollow core walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #48 : Vestibule, Phase: A **Floor: Main-Blower** **Room #:** **Area (sqft): 120**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		120			SF	V0006	None Detected	N.D.	None
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	No Information	NI											

Mortar on hollow core walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #49 : Fan Room, Phase: A **Floor: Second-Blower** **Room #:** **Area (sqft): 225**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Fresh Air Intake	Fibreglass	Surface	Canvas	B	Y									
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping one	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping one	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		6			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping two	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping two	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		6			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping three		Fibreglass	Straight	Canvas	C	Y									
Piping three		Parging over Fibreglass	Fitting	Canvas	C	Y		5			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping four	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		2			EA	V0002	Chrysotile	25-50%	Confirmed Asbestos(F)
Piping four	Rain Water Leader	Sweat Wrap pipe insulation	Straight	Canvas	C	Y		15			LF	S0008	None Detected	N.D.	None
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	No Information	NI											

Mortar on hollow core walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #50 : Lecture Room, Phase: A **Floor: Second-Blower** **Room #:** **Area (sqft): 400**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		400			SF	V0006	None Detected	N.D.	None
Duct	Not Found	NI	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		400			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	No Information	NI											

Mortar on hollow core walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #51 : Office, Phase: A **Floor: Second-Blower** **Room #:** **Area (sqft): 420**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		420			SF	V0006	None Detected	N.D.	None
Duct	Not Found	NI	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		420			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	No Information	NI											

Mortar on hollow core walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #52 : Hallway, Phase: A **Floor: Second-Blower** **Room #:** **Area (sqft): 1100**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		1100			SF	V0006	None Detected	N.D.	None
Duct	Not Found	NI	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		1100			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	No Information	NI											

Mortar on hollow core walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #53 : Office, Phase: A **Floor: Second-Blower** **Room #:** **Area (sqft): 420**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		420			SF	V0006	None Detected	N.D.	None
Duct	Not Found	NI	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		420			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	No Information	NI											

Mortar on hollow core walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #54 : Lunchroom, Phase: A **Floor: Second-Blower** **Room #:** **Area (sqft): 720**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		720			SF	V0006	None Detected	N.D.	None
Duct	Return Air	Not Insulated	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		720			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Aircell	Straight	Canvas	C	N		6			LF	V9000	Confirmed Asbestos		Confirmed Asbestos(F)
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	N		2			LF	V0002	Chrysotile	25-50%	Confirmed Asbestos(F)
Piping	Rain Water Leader	Sweat Wrap pipe insulation	Straight	Canvas	C	N		8			LF	V0008	None Detected	N.D.	None
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	No Information	NI											

Mortar on hollow core walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #55 : Men's Washroom, Phase: A **Floor: Second-Blower** **Room #:** **Area (sqft): 1600**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		1600			SF	V0006	None Detected	N.D.	None
Duct	Return Air	Not Insulated	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Ceramic Tiles	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Aircell	Straight	Canvas	C	N		18			LF	V9000	Confirmed Asbestos		Confirmed Asbestos(F)
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	N		1			EA	V0002	Chrysotile	25-50%	Confirmed Asbestos(F)
Piping	Rain Water Leader	Sweat Wrap pipe insulation	Straight	Canvas	C	N		8			LF	V0008	None Detected	N.D.	None
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Ceramic Tiles	No Information	NI											

Mortar on hollow core walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #56 : Storage, Phase: A **Floor: Second-Blower** **Room #:** **Area (sqft): 100**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		100			SF	V0004	None Detected	N.D.	None
Duct	Not Found	NI	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		100			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Heating Water Tank	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	All	Not Insulated	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	No Information	NI											

Mortar on hollow core walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #57 : Storage, Phase: A **Floor: Second-Blower** **Room #:** **Area (sqft): 100**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		100			SF	V0004	None Detected	N.D.	None
Duct	Not Found	NI	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		100			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	All	Not Insulated	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	No Information	NI											

Mortar on hollow core walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #58 : Ventilation Room, Phase: A **Floor: Second-Blower** **Room #:** **Area (sqft): 1600**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Fresh Air Intake	Fibreglass	Surface	Canvas	C	Y									
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Mechanical Equipment		Fibreglass w/Parging	Surface	Canvas	B	Y		12			SF	V0003	Chrysotile	50-75%	Confirmed Asbestos(F)
Other	Not Found	NI	No Information	NI											
Piping one	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping one	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		3			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping two	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping two	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		6			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping three		Fibreglass	Straight	Canvas	C	Y									
Piping three		Parging over Fibreglass	Fitting	Canvas	C	Y		8			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping four		Fibreglass	Straight	Canvas	C	Y									
Piping four		Parging over Fibreglass	Fitting	Canvas	C	Y		8			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping five	Rain Water Leader	Fibreglass	Straight	Canvas	C	Y									
Piping five	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		4			EA	V0002	Chrysotile	25-50%	Confirmed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	No Information	NI											

Mortar on hollow core walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #59 : Board Room, Phase: A **Floor: Second-Blower** **Room #:** **Area (sqft): 2100**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Fibreglass	Fitting	Polyvinyl chloride (PVC)	C	Y		100			%	V0000	Non-Asbestos		None
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Masonry	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #60 : Secondary Fan Building Exterior, Phase: A **Floor: Ext** **Room #:** **Area (sqft): 0**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Wall	Exterior	Steel	Surface	N/A	A	Y		100			%	V0000	Non-Asbestos		None
Wall	Exterior	Concrete (precast)	Surface	N/A	A	Y		100			%	V0000	Non-Asbestos		None
Wall	Exterior	Plaster	Surface	N/A	A	Y		100			SF	S0010	None Detected	N.D.	None

Roof needs to be tested prior to any renovation or demolition activities.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #61 : Secondary Clarifier Building Exterior, Phase: A **Floor: Main** **Room #: Exterior** **Area (sqft): 0**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Wall	Exterior	Steel	Surface	N/A	A	Y		100			%	V0000	Non-Asbestos		None
Wall	Exterior	Mastic, Black	Base	Textile	A	Y		1400			%	S0011	Chrysotile	1-5%	Confirmed Asbestos(NF)
Wall	Exterior	Abated Material	Base	N/A	A	Y						V9500	[None]		[Abated]

Roof needs to be tested prior to any renovation or demolition activities.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifiers**
Location: #62 : Secondary Clarifier Office Building, Phase: A **Floor: Main** **Room #:** **Area (sqft): 0**
Survey Date: 2006-04-20 **Last Re-Assessment: 2021-06-24**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Wall	Door	Steel	Surface	N/A	A	Y		100			%	V0000	Non-Asbestos		None
Wall	Exterior	Clay Tile (block)	Surface	N/A	A	Y		100			%	V0000	Non-Asbestos		None
Wall	Exterior	Plaster	Surface	N/A	A	Y		100			%	S0012	None Detected	N.D.	None

Roof needs to be tested prior to any renovation or demolition activities.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

FINAL

Asbestos Reassessment

Primary Clarifier, North End Water Pollution Control Centre
2230 Main Street,
Winnipeg, Manitoba

Prepared for:

City of Winnipeg Water and Waste Department
110 – 1199 Pacific Avenue
Winnipeg, Manitoba R3E 3S8

October 14, 2021

Pinchin File: 289439

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EXECUTIVE SUMMARY

City of Winnipeg Water and Waste Department (Client) retained Pinchin Ltd. (Pinchin) to conduct an asbestos building materials reassessment of the Primary Clarifier, North End Water Pollution Control Centre located at 2230 Main Street, Winnipeg, Manitoba. The reassessment was performed on June 24, 2021.

The objective of the reassessment was to evaluate the condition and quantity of previously reported asbestos-containing materials (ACM), and develop corrective action plans as required for the purposes of long-term management. The results of this assessment are not intended for construction, renovation, demolition or project tendering purposes.

The reassessment was based on information gathered from previous comprehensive assessment report completed by Pinchin. The original assessment report for the Primary Clarifier, North End Water Pollution Control Centre was dated March 6, 2007. The results of the original report and subsequent survey update reports were reviewed prior to completing the reassessment.

The assessed area was limited to the parts of the buildings where the original report had indicated asbestos-containing materials (ACMs) were present. Rooms where no ACMs were reported were not inspected.

HMIS data has been updated online.

SUMMARY OF FINDINGS

Asbestos-containing materials (ACM) are present as follows:

- Asbestos-containing parging cement is present on pipe fittings of the heating water, flushing water, rainwater leader, and glycol pipe systems throughout the building. Parging cement is friable, was jacketed with canvas and in GOOD condition.
- Asbestos-containing grey caulking is present on the exterior walls of the building. Caulking is non-friable and is in GOOD condition.
- Drywall joint compound suspect to contain asbestos is present as wall and ceiling finish within Location No.’s 7 and 8. Drywall joint compound is potentially friable and is in GOOD condition; and
- Mortar present on masonry walls throughout the facility is presumed to contain asbestos. Mortar is potentially friable and is in GOOD condition.

SUMMARY OF RECOMMENDATIONS

The following is a summary of significant recommendations; refer to the body of the report for detailed recommendations:

1. Perform a reassessment of asbestos materials on an annual basis;
2. Prior to renovations or demolition, perform a pre-construction assessment to identify any hazardous materials that may be disturbed by the work; and
3. Follow appropriate safe work procedures when handling or disturbing asbestos.

This Executive Summary is subject to the same standard limitations as contained in the report and must be read in conjunction with the entire report.

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APPENDICES

1.0 INTRODUCTION AND SCOPE

City of Winnipeg Water and Waste Department (Client) retained Pinchin Ltd. (Pinchin) to conduct an asbestos building materials reassessment of the Primary Clarifier Building within the North End Water Pollution Control Centre located at 2230 Main Street, Winnipeg, Manitoba.

Pinchin performed the reassessment on June 24, 2021. The surveyor was accompanied by City of Winnipeg Water and Waste Representative during the reassessment. The assessed area was occupied at the time of the assessment.

The objectives of the reassessment were to document the locations, quantities and conditions of previously identified asbestos containing building materials and develop corrective action plans as required. This reassessment is only to be used for the purposes of long-term management and routine maintenance. The results of this reassessment are not to be used for construction, renovation, demolition or project tendering purposes.

1.1 Scope of Assessment

The objective of the reassessment was to evaluate the condition and quantity of previously reported asbestos-containing materials (ACM), and develop corrective action plans as required.

Additional objectives included the following:

- Documentation of any asbestos abatement that was performed since the last reassessment.

Please refer to Appendix I for a detailed description of the methodology used for this assessment.

2.0 METHODOLOGY

Pinchin conducted an inspection of previously identified asbestos-containing materials (ACM) to evaluate the current condition of all accessible identified in the most recent assessment. The surveyor made reference to any existing assessment or abatement reports (as provided by the Client).

As per the original scope of work, concealed locations such as ceiling spaces above solid ceilings, shafts and chases were accessed via existing access panels. Our investigation did not include demolition of drywall or plaster walls to view concealed conditions. Structural items or exterior building finishes were not removed to determine the presence of concealed materials.

For further details on the methodology including test methods, refer to Appendix I.

3.0 BACKGROUND INFORMATION

3.1 Existing Reports and Summary of Asbestos Abatement

3.1.1 Review of Previous Reports

The reassessment was based on information gathered from previous comprehensive assessment report completed by Pinchin. The original assessment report for the Primary Clarifier, North End Water Pollution Control Centre was dated March 6, 2007. The results of the original report and subsequent survey update reports were reviewed prior to completing the reassessment.

3.1.2 Summary of Asbestos Abatement since the Previous Assessment

Based on a review of the above noted abatement reports, and observations made during the reassessment, asbestos abatement has not been conducted since the last assessment.

4.0 FINDINGS

The following section summarizes the findings of the reassessment and provides a general description of the asbestos-containing materials (ACM) identified and their locations.

For details on approximate quantities, condition, friability and locations of asbestos materials; refer to the Asbestos Material Summary Report and HMIS Data Report in Appendix III and IV.

Appendix II presents the asbestos bulk sample analytical results.

4.1 Pipe Insulation

Asbestos-containing parging cement is present on pipe fittings of the heating water, flushing water, rain water leader, and glycol pipe systems throughout the building. Parging cement is a friable material which is jacketed with canvas and is in GOOD condition.

4.2 Drywall Joint Compound

Drywall (gypsum board) and drywall joint compound is present as wall and ceiling finishes within Location No.’s 7 and 8. The drywall joint compound present has not been sampled and is presumed to contain asbestos. Drywall joint compound is non-friable while in place but can become friable during removal. Drywall joint compound is in GOOD condition.

4.3 Sealants, Caulking, and Putty

Grey caulking present on the exterior of the building, Location No.22 contains asbestos. It is non-friable and is in GOOD condition.

Grey caulking present on the exterior of the building, Location No.23 is presumed to contain asbestos. It is non-friable and is in GOOD condition.

4.4 Roofing Products

No visual inspection or sampling was conducted at this location. It is presumed to contain asbestos. Destructive testing will be required prior to any renovation or demolition activities.

4.5 Other Building Materials

Mortar present masonry walls throughout the facility is presumed to contain asbestos, is potentially friable and is in GOOD condition.

4.6 Excluded Asbestos Materials

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

- Roofing felts and tar, mastics;
- Floor levelling compound;
- Ceramic tile setting compound;
- Elevator and lift brakes;
- Electrical components;
- Moulded plastic components (laboratory bench tops);
- Refractory materials and insulations in boilers, incinerators and stacks;
- Insulation under metal clad boilers and vessels;
- Mechanical packing, ropes and gaskets;
- Vermiculite;
- Adhesives and duct mastics;
- Caulking and putties;
- Fibre-reinforced paints and coatings;
- Paper products;
- Soffit and fascia boards;

- Fire resistant doors;
- Metal clad finishes (Galbestos);
- Stucco, plaster or other cementitious parge coatings;
- Vibration dampers on HVAC equipment;
- Terrazzo;
- Ropes and gaskets in cast-iron bell and spigot joints; and
- Sealants on pipe threads.

5.0 RECOMMENDATIONS

5.1 General

Perform a detailed intrusive assessment prior to building renovation or demolition operations. The assessment should include; destructive testing (e.g. coring and/or removal of building finishes and components), sampling of other hazardous materials (lead, mercury, PCBs, mould, etc.), and materials not tested in this study (e.g. roofing materials, caulking, mastics).

5.2 On-going Management and Maintenance

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

Perform a reassessment of asbestos materials on an annual basis.

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

Update the asbestos inventory report for the building upon completion of any abatement of ACM.

6.0 TERMS AND LIMITATIONS

This work was performed subject to the Terms and Limitations presented or referenced in the proposal for this project.

Information provided by Pinchin is intended for Client use only. Pinchin will not provide results or information to any party unless disclosure by Pinchin is required by law. Any use by a third party of reports or documents authored by Pinchin or any reliance by a third party on or decisions made by a third party based on the findings described in said documents, is the sole responsibility of such third parties. Pinchin accepts no responsibility for damages suffered by any third party as a result of decisions made or actions conducted. No other warranties are implied or expressed.

7.0 REFERENCES

The following legislation and documents were referenced in completing the assessment and this report:

1. Workplace Safety and Health Act W210.
2. Workplace Safety and Health Hazard Regulation (Manitoba Regulation 217/2006), under the Workplace Safety and Health Act.
3. Manitoba Regulation MR 474/88, Manitoba PCB Regulation made under The Dangerous Goods Act.
4. Guide for Asbestos Management – Safe Work Manitoba.
5. Guideline Managing Demolition Debris Containing Hazardous Materials – Environmental Enforcement and Compliance Branch – Manitoba Conservation and Climate
6. Canada Occupational Health and Safety Regulation, SOR/86-304.
7. Consolidated Transportation of Dangerous Goods Regulations, including Amendment SOR/2019-101, Transportation of Dangerous Goods Act.

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Template: Master Report for Asbestos Reassessment, HAZ, July 29, 2021

APPENDIX I

Methodology

1.0 METHODOLOGY

Pinchin conducts an inspection of previously identified asbestos-containing materials (ACM) to evaluate the current condition of all accessible identified in the most recent assessment. The surveyor makes reference to any existing assessment or abatement reports (as provided by the Client).

1.1 Limitations on Scope

The reassessment excludes the following:

- Articles belonging to the owner, tenant or occupant (e.g. stored items, furniture, appliances, etc.);
- Underground materials or equipment (e.g. vessels, drums, underground storage tanks, pipes, etc.);
- Building envelope, structural components, inaccessible or concealed materials or other items where sampling may cause consequential damage to the property;
- Energized systems (e.g. internal boiler components, elevators, mechanical or electrical components);
- Controlled products (e.g. stored chemicals, operational or process-related substances); and
- Materials not typically associated with construction (e.g. settled dust, spills, residual contamination from prior spills, etc.).

As per the original scope of work, concealed locations such as ceiling spaces above solid ceilings, shafts and chases are accessed via existing access panels. Our investigation does not include demolition of drywall or plaster walls to view concealed conditions. Structural items or exterior building finishes are not removed to determine the presence of concealed materials.

1.2 Methodology

Existing sampling data is reviewed and relied upon. If sampling is conducted, samples are collected at a rate that is in compliance with the requirements of local regulations and guidelines. The sampling strategy is also based on known ban dates and phase out dates of the use of asbestos; sampling of certain building materials is not conducted after specific construction dates. In addition, to be conservative, several years past these dates are added to account for some uncertainty in the exact start / finish date of construction and associated usage of ACM.

Materials listed as exclusions in the previous reports remain as exclusions. Sampling, assessment or verification of excluded materials was not conducted.

If present, the following materials are presumed to be asbestos-containing and are best sampled immediately prior to commencing renovation/disturbance:

- Roofing felts and tar, mastics;
- Floor levelling compound;
- Ceramic tile setting compound;
- Elevator and lift brakes;
- Electrical components or wiring within control centers, breakers, motors or lights, insulation on wiring;
- Moulded plastic components (laboratory bench tops);
- Refractory materials and insulations in boilers, incinerators and stacks;
- Insulation under metal clad boilers and vessels;
- Mechanical packing, ropes and gaskets;
- Vermiculite;
- Adhesives and duct mastics;
- Caulking and putties;
- Fibre-reinforced paints and coatings;
- Paper products;
- Soffit and fascia boards;
- Fire resistant doors;
- Metal clad finishes;
- Exterior cladding;
- Stucco, plaster or other cementitious parge coatings; and
- Vibration dampers on HVAC equipment.

2.0 ANALYSIS AND IDENTIFICATION OF ASBESTOS MATERIALS

Pinchin relies on the analytical results of prior surveys. Asbestos bulk samples (if required) are analyzed at an independent NVLAP accredited laboratory. Preliminary identification of asbestos fibres is made using polarized light microscopy, with confirmation of the presence and type of asbestos made by dispersion staining optical microscopy. The analysis is performed in accordance with Test Method EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials, June 1993. All independent laboratories used by Pinchin, including our laboratory, are certified under the National Voluntary Laboratory Accreditation Program (NVLAP) to perform asbestos analysis of bulk samples.

Analytical results are compared to the following criteria:

Jurisdiction	Friable	Non-Friable
Manitoba	0.1%[1]	1%
Federal	1%	1%

The asbestos analysis is completed using a stop positive approach. Only one result meeting the above regulated criteria is required to determine that a material is asbestos-containing, but all samples must be analyzed to conclusively determine that a material is non-asbestos. The laboratory stops analyzing samples from a homogeneous material once a result equal to or greater than the regulated criteria is detected in any of the samples of that material. All samples of a homogeneous material are analyzed if no asbestos is detected. In some cases, all samples are analyzed in the sample set regardless of result.

Where building materials are described in the report as “non-asbestos” or “does not contain asbestos”, this means that either no asbestos was detected by the analytical method utilized in any of the multiple samples or, if detected, it is below the lower limit of an asbestos-containing material in the applicable regulation.

Asbestos materials are evaluated in order to make recommendations regarding remedial work. The priority for remedial action is based on several factors:

- Friability (friable or non-friable);
- Condition (good, fair, poor, debris);
- Accessibility (ranking from accessible to all building users to inaccessible);
- Visibility (whether the material is obscured by other building components); and
- Efficiency of the work (for example, if damaged ACM is being removed in an area, it may be most practical to remove all ACM in the area even if it is in good condition).

For a complete description of the Evaluation Criteria and Basis of Recommendations, refer to Annex A.

Template: Methodology for Asbestos Re-Assessment, HAZ, January 10, 2020

METHODOLOGY ANNEX A EVALUATION CRITERIA

1.0 EVALUATION CRITERIA AND BASIS OF RECOMMENDATIONS

The detailed asbestos assessment provides information regarding the location, condition, accessibility and friability of the asbestos-containing materials (ACM). In order to make recommendations for compliance with current regulations, Pinchin developed the following criteria.

2.0 EVALUATION OF CONDITION

2.1 Friable Sprayed or Trowelled Fireproofing, Thermal Insulation and Texture Finishes (Surfacing Materials)

To evaluate the condition of ACM sprayed or trowelled on fireproofing, sprayed or trowelled thermal insulation (non-mechanical), or texture, decorative or acoustic finishes, the following criteria are applied:

Good	Surface of material shows no significant signs of damage, deterioration or delamination. Good condition includes unencapsulated or unpainted fireproofing or texture finishes, where no or limited delamination or damage is observed, or encapsulated fireproofing or texture finishes where the encapsulant or paint has been applied after the damage or fallout occurred.
Poor	A sprayed material that shows signs of significant damage or is significantly delaminating or deteriorating. This may be limited to surface delamination or some portion of the substrate may be exposed.

In Locations where damage exists in isolated areas, both good and poor condition may be applicable. The extent of each condition will be recorded. Fair condition is not utilized in the evaluation of ACM sprayed or trowelled fireproofing, sprayed or trowelled thermal insulation (non-mechanical), or texture, decorative or acoustic finishes.

The evaluation of the above products above ceilings may be limited by the number of observations and by building components such as ducts or full height walls that obstruct the above ceiling observations.

2.2 Friable Mechanical or Thermal System Insulation (TSI)

To evaluate the condition of mechanical insulation on vessels, boilers, breeching, ducts, pipes, fan units, equipment etc. the following criteria are applied:

Good	Insulation is completely covered in jacketing and exhibits no evidence of damage or deterioration. No insulation is exposed. Includes conditions where the jacketing has minor damage (i.e. scuffs or stains), but the jacketing is not penetrated.
Fair	Minor penetrating damage to jacketed insulation (cuts, tears, nicks, deterioration or delamination) or undamaged insulation that has never been jacketed. Insulation is exposed but not showing surface disintegration. The extent of missing insulation ranges from minor to none. Damage can be repaired.
Poor	Original insulation jacket is missing, damaged, deteriorated or delaminated. Insulation is exposed and significant areas have been dislodged. Damage cannot be readily repaired. Includes components where insulation may have been removed incompletely.

The evaluation of mechanical insulation may be limited by the number of observations made and building components such as ducts or full height walls that obstruct observations. It is often not possible to observe each foot of mechanical insulation from all angles.

2.3 Potentially Friable Materials and Miscellaneous Friable Materials

Potentially friable ACM are products that are basically non-friable while in place but have the potential to generate friable dust upon removal or if significantly disturbed without appropriate procedures. These products may become friable if damaged. Potentially friable materials include materials such as acoustic ceiling tiles and plaster. To evaluate the condition of potentially friable materials, the following criteria are applied:

Good	No significant damage or deterioration. Still serving its intended use as a building material or finish.
Fair	Showing signs of some cracking or breakage, but is not deteriorating (e.g. cracked plaster, broken but in place ceiling tile, missing tile or section of plaster etc.). The condition is such that it is still serving its intended use as a building material or finish but may require repair for mainly cosmetic purposes.
Poor	Significant deterioration or breaking apart of the material. Material has deteriorated to the point it is not serving its intended use as building material or finish. Material has deteriorated to a point it has become friable. Normally potentially friable ACM in Poor condition is not repairable and requires at least localized removal and replacement.

2.4 Non-Friable Materials

Non-friable ACM cover a wide range of products with a wide variation in their tendency to release dust or asbestos fibres to the air. Many of these materials, (particularly where the matrix is an unweathered bitumen, asphalt or tar material) do not release fibres except in very unusual circumstances or during significant disturbance (e.g. use of abrasive power tools). Others with a cementitious matrix (asbestos-cement products) can more readily release dust due to abrasion, demolition, weathering, etc. The potential for asbestos release from non-friable ACM is always lower than from friable ACM. To evaluate the condition of non-friable Materials, the following criteria are applied:

Good	No significant damage or deterioration. Still serving its intended use as a building material or finish.
Fair	Showing signs of some cracking or breakage but is not deteriorating (e.g. cracked vinyl floor tile, missing piece of tile or transite, etc.). The condition is such that it is still serving its intended use as a building material or finish but may require repair for mainly cosmetic purposes.
Poor	Significant deterioration or breaking apart of the material to the point at which it cannot be repaired, and it will require at least local removal. Material has deteriorated to the point it is not serving its intended use as building material or finish. Material may have deteriorated to a point where traffic or disturbance may cause it to become friable.

2.5 Evaluation of ACM Debris

The identification of the exact location or presence of debris on the top of ceiling tiles is limited by the number of observations made and the presence of building components such as ducts or full height walls that obstruct observations.

The presence of fallen or dislodged ACM is noted separately from the ACM source and is referred to as Debris. Debris may be friable if from a friable ACM source or a badly deteriorated non-friable ACM source. Debris may also be non-friable (such as fallen pieces of transite sheet or mastic fittings, or broken, dislodged floor tiles).

Debris	Debris may be friable or non-friable but is always identified as debris.

2.6 Evaluation of Presumed Asbestos-Containing Material (PACM)

Presumed asbestos-containing materials (PACM), are building materials that may contain asbestos but were not sampled or analyzed due to inaccessibility or the need to perform destructive testing to obtain a reasonable sample set. Evaluation of these materials is based on the assumption that these PACM are asbestos-containing.

A list of PACM is provided in the report and they are generally not included in the detailed room by room reports. Typically, they are excluded because they are inaccessible or present in very small quantities. If PACM are evaluated, Pinchin uses the criteria that correspond with the type (and friability) of the material listed above.

3.0 EVALUATION OF ACCESSIBILITY

The accessibility of building materials known or suspected of being ACM is rated according to the following criteria:

Access (A)	Common areas of the building within reach of all building users (approximately 8 '-9' from floor or standard ceiling height). Includes other areas where occupant activities may result in disturbance of material that is not normally within reach from floor level, but may be disturbed by common activities (e.g. gymnasiums, workshops, warehouses)
Access (B)	Areas of the building accessed primarily by Maintenance/Caretaking/Janitorial Staff and within reach without use of a ladder. Includes areas within reach in Boiler Rooms, Electrical Rooms, Janitors Closets, Elevator Rooms, Mechanical Rooms, etc. Includes materials within reach from fixed ladders or catwalks, mezzanines, and accessible pipe chases.
Access (C) and Visible	Areas of the building above 8' - 9' where use of a ladder or scaffold is required to reach the ACM. Only includes ACM that are visible to view without the removal or opening of other building components such as ceiling tiles or service access panels. Visible column on HMIS sheets will say YES.
Access (C) and not Visible	Areas of the building above 8' - 9' where use of a ladder or scaffold is required to reach the ACM. Includes ACM that are not visible to view and require the removal of a building component to see, such as ceilings tiles or access panels to view and access. Includes rarely entered crawl spaces, attic spaces, etc. Observations will be limited to the extent visible from the access points. Visible column on HMIS sheets will say NO.
Access (D)	Areas of the building behind inaccessible solid ceiling systems, walls or equipment etc. where demolition of the ceiling, wall or equipment etc. is required to reach the ACM. Material inaccessible due to height or location or is only accessed under unusual situations. Evaluation of condition and extent of ACM is limited or impossible, depending on the surveyor's ability to visually examine materials in Access D.

4.0 ACTION MATRIX AND DEFINITIONS

Pinchin's evaluation of the viability of a specific asbestos control option is based on the consideration of the friability, condition, accessibility and visibility of a material. The logic used is that damaged ACM located in an area frequently accessed by all building occupants is of a higher priority than damaged ACM located in an infrequently accessed service area. The action matrix considers the potential for fibre release (primarily from friable ACM) and the possible concerns from regulatory bodies and many building occupants to all damaged ACM (including non-friable).

In any building with asbestos, many current regulations require an Asbestos Management Program be implemented. Depending on the condition and the accessibility, more active measures such as repair or removal may be recommended. The following matrix provides guidance for recommended Actions in the absence of renovation or demolition. In the event of construction or maintenance activity which will disturb ACM more aggressive control or removal will be required.

4.1 Action Matrix

The following tables outline the action decisions based on the relationship of assessed factors. Table I applies to friable ACM. Table II applies to non-friable ACM.

Table I Decision Matrix for Friable ACM

	Condition			
Access	**Good**	**Fair**	**Poor**	**Debris**
(A)	Action 5[1]	Action 5[2]	Action 3	Action 1
(B)	Action 7	Action 6[3]	Action 3	Action 1
(C) Visible	Action 7	Action 6	Action 3	Action 2
(C) Not Visible	Action 7	Action 7	Action 4	Action 2
(D)	Action 7	Action 7	Action 7	Action 7

Table II Decision Matrix for Potentially Friable and Non-Friable ACM

	Condition			
Access	**Good**	**Fair**	**Poor**	**Debris**
(A)	Action 7	Action 7[4]	Action 3	Action 1
(B)	Action 7	Action 7	Action 3	Action 1
(C) Visible	Action 7	Action 7	Action 4	Action 2
(C) Not Visible	Action 7	Action 7	Action 4	Action 2
(D)	Action 7	Action 7	Action 7	Action 7

[1] If friable ACM in access (A)/Good condition is not proactively removed Action 7 (Manage) is recommended.
[2] If friable ACM in access (A)/Fair condition is not proactively removed repair is recommended.
[3] If friable ACM in access (B)/Fair condition is likely to be disturbed after repair proactive removal is recommended.
[4] Action 7 is recommended for all non-friable ACM in Fair condition however some clients may wish to repair or take some action primarily for cosmetic reasons

4.2 Action Definitions

The following are the definitions in the Action Matrix Table presented above:

Action Definitions	
Action 1	Clean-Up of ACM Debris Restrict access that is likely to cause a disturbance of the ACM Debris and clean up ACM Debris. Utilize appropriate asbestos precautions.
Action 2	Precautions for Access Which may Disturb ACM Debris Use appropriate means to isolate the debris or to limit entry to the area which may disturb the material. At locations where ACM Debris can remain in place in lieu of removal or clean-up (e.g. Debris on top of ceiling tiles or behind lockable door), Utilize appropriate asbestos precautions to enter the area if this will disturb debris. The precautions will be required until the ACM Debris has been cleaned up.
Action 3	ACM Removal Remove ACM. Utilize asbestos procedures appropriate to the scope of the removal work. Until it is removed, restrict access to the material so it is not disturbed.
Action 4	Precautions for Work Which may Disturb ACM in Poor Condition. Utilize appropriate asbestos precautions if ACM may be disturbed by work on or near ACM. This does not require restricting access to the area, only control of work which may contact or disturb the ACM. Removal is the only viable option if work will disturb ACM.
Action 5	Proactive ACM Removal Remove friable ACM where the presence of friable asbestos in Good condition is not desirable. If friable ACM in Fair condition is not removed, then Repair friable ACM.
Action 6	ACM Repair Repair friable ACM in Fair condition which is not likely to be damaged again or disturbed by normal use of the area or room. Pinchin recommends proactive removal if friable ACM is likely to be damaged or disturbed during normal use of the area or room
Action 7	Asbestos Management Program with Routine Surveillance Implement an Asbestos Management Program, including routine surveillance of ACM. Reassess materials regularly (typically once per year).

Master Template: Methodology Annex A to Appendix I Evaluation Criteria, HAZ, January 10, 2020

APPENDIX II

Location Summary Report

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

LOCATIONS LIST

PINCHIN
1.855.PINCHIN www.pinchin.com

Client:City of Winnipeg Water and Waste Dept **Site: 2230 Main Street, Winnipeg, MB**
Building Name: Primary Clarifier
Survey Date: **Last Re-Assessment: 2021-06-24**

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	North Covered Walkway	800	Main	A	
2	South Covered Walkway	800	Main	A	Parging Cement taken from Fitting, Hot Water Return, Location 2 (South Covered Walkway), Basement, Primary Clarifier Building, North End Water Pollution Control Centre S0001 lab ref b79951 Proj no 64892 reflected as S0006 in HMIS is not asbestos containing
3	Southwest Covered Walkway	650	Main	A	
4	Control Chamber Room	0	Main	A	
5	Loading Area	750	Main	A	Mortar on cinder block walls is presumed asbestos containing.
6	Washroom	40	Main	A	Mortar on cinder block walls is presumed asbestos containing.
7	Control Room	120	Main	A	New VSF Mortar on cinder block walls is presumed asbestos containing.
8	Electrical Room	120	Main	A	Mortar on cinder block walls is presumed asbestos containing.
9	Ventilation Room	400	Main	A	Mortar on cinder block walls is presumed asbestos containing.
10	East Gallery Tank No. 4	600	Main	A	Mortar on cinder block walls is presumed asbestos containing.
11	East Gallery Tank No. 5	600	Main	A	Mortar on cinder block walls is presumed asbestos containing.
12	North & South Wall	300	Main	A	Mortar on cinder block walls is presumed asbestos containing.
13	West and South Wall	1500	Main	A	Mortar on concrete block walls is presumed asbestos containing.
14	Sludge Pump Room	2000	Basement	A	Mortar on cinder block walls is presumed asbestos containing.
15	Scum Room	800	Basement	A	Parging Cement taken from Fitting, Hot Water Supply, Location 15 (Scum Room), Basement, Primary Clarifier Building, North End Water Pollution Control Centre S0002 lab ref b79951 Proj no 64892 reflected as S0007 in HMIS
16	Gallery No. 4	1700	Basement	A	
17	Gallery No. 6	1700	Basement	A	
18	Primary Clarifier Gallery	1360	Basement	A	
19	Control Chamber Basement	800	Basement	A	
20	Gallery No. 5	3584	Basement	A	
21	Gallery No. 3	1100	Basement	A	
22	Clarifier Control Bldg (by Primary Clarifier) Exterior Wall, room no. Exterior	0	Main	A	Roof sections needs to be tested prior to any renovation or demolition activities.
23	Primary Clarifier Exterior Wall, room no. Exterior	0	Main	A	Mortar suspect to contain asbestos. Roof needs to be tested prior to any renovation or demolition activities.

APPENDIX III

Asbestos Material Summary Report / Sample Log

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

PINCHIN
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Client:City of Winnipeg Water and Waste Dept **Site: 2230 Main Street, Winnipeg, MB** **Building Name: Primary Clarifier** **Surveyor: Jason Combe** **Survey Date:**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	S0001	PIPING | PARGING OVER FIBREGLASS | PARGING, FITTING, HWR, LOCATION 1	1,15	A	0	0	29	0	None Detected	No
Asbestos	S0002	PIPING | SWEAT WRAP PIPE INSULATION | SWEATWRAP, STRAIGH RUN, RWL, LOCATION 4 2 PHASES	4,5	A	56	0	0	0	None Detected	No
Asbestos	S0003	DUCT | PARGING OVER FIBREGLASS | PARGING, DUCT, FAI, LOCATION 5	5	A	0	0	8	0		No
Asbestos	S0004	CEILING | CEILING TILES (GLUE-ON) | TILE - GLUE ON - LOCATION 7	7	A	0	120	0	0	None Detected	No
Asbestos	S0005	PIPING | PARGING OVER FIBREGLASS | PARGING, FITTING, GLYR, LOCATION 10	10	A	0	0	1	0	None Detected	No
Asbestos	S0006	PIPING | PARGING OVER FIBREGLASS | 0001PARGING CEMENT, FITTING, HOT WATER RETURN, LOCATION 2 (SOUTH COVERED WALKWAY) , MAIN FLOOR, PRIMARY CLARIFIER BUILDING, NORTH END WATER POLLUTION CONTROL CENTRE	2	A	0	0	1	0	None Detected	No
Asbestos	S0007	PIPING | PARGING OVER FIBREGLASS | 0002PARGING CEMENT, FITTING, HOT WATER SUPPLY, LOCATION 15 (SCUM ROOM), BASEMENT, PRIMARY CLARIFIER BUILDING, NORTH END WATER POLLUTION CONTROL CENTRE	1,2,4,5,9,11,14,15,16,18,19,21	A	0	0	136	0	Chrysotile	Yes
Asbestos	S0008	PIPING | PARGING OVER FIBREGLASS | HOMOGENOUS, GREY, SOFT, PARGING CEMENT, FITTING, GLYCOL SUPPLY, LOCATION 10 (EAST GALLERY TANK NO. 04), PRIMARY CLARIFIER BUILDING, NORTH END WATER POLLUTION CONTROL CENTRE	10	A	0	0	0	0	None Detected	No
Asbestos	S0009	PIPING | PARGING CEMENT | HOMOGENOUS, GREY, SOFT, PARGING CEMENT, FITTING, FLUSHING WATER PIPE, LOCATION 2 (SOUTH COVERED WALKWAY), PRIMARY CLARIFIER BUILDING, NORTH END WATER POLLUTION CONTROL CENTRE	1,2,5,14,15	A	0	0	27	0	Chrysotile	Yes
Asbestos	S0010	PIPING | PARGING OVER FIBREGLASS | HOMOGENOUS, GREY, SOFT, PARGING CEMENT, FITTING, RAIN WATER LEADER, LOCATION 4 (CONTROL CHAMBER ROOM), PRIMARY CLARIFIER BUILDING, NORTH END WATER POLLUTION CONTROL CENTRE	4,12,13	A	0	0	6	0	Chrysotile	Yes
Asbestos	S0011	PIPING | PARGING OVER FIBREGLASS | HOMOGENOUS, GREY, SOFT, PARGING CEMENT, FITTING, HOT WATER RETURN, LOCATION 15 (SCUM	4,5,9,11,14,15,16,18,19,21	A	0	0	119	0	Chrysotile	Yes

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
		ROOM), PRIMARY CLARIFIER BUILDING, NORTH END WATER POLLUTION CONTROL CENTRE								
Asbestos	S0012	DUCT | PARGING OVER FIBREGLASS | HOMOGENEOUS, OFF-WHITE, SOFT, CEMENTITIOUS MATERIAL, PARGING OVER FIBREGLASS, AHU - PF 23, EAST GALLERY TANK NO. 5 (LOCATION 11), MAIN FLOOR, PRIMARY CLARIFIER BUILDING, NORTH END WATER POLLUTION CONTROL CENTRE	11	A	0	0	0	100	None Detected	No
Asbestos	S0013	WALL | PLASTER | PLASTER, EXTERIOR WALL BY CLARIFIER CONTROL BLDG. (SAMPLED OCTOBER 16, 2014 AS S0010 A TO C)	22	A	0	9600	0	0	None Detected	No
Asbestos	S0014	WALL | CAULKING | CAULKING, EXTERIOR WALL, EXT DOOR, EXT WINDOW BY CLARIFIER CONTROL BLDG (SAMPLED OCTOBER 16, 2014 AS S0011 A TO C)	22	A	150	0	0	0	Chrysotile	Yes
Asbestos	V9500	CEILING | DRYWALL AND JOINT COMPOUND |	8	A	0	0	0	0	Presumed Asbestos	Yes
Asbestos	V9500	PIPING | PARGING CEMENT |	1	A	0	0	5	0	Presumed Asbestos	Yes
Asbestos	V9500	PIPING | PARGING OVER FIBREGLASS |	1,2,10,11	A	0	0	53	0	Presumed Asbestos	Yes
Asbestos	V9500	WALL | CAULKING |	23	A	0	0	0	100	Presumed Asbestos	Yes
Asbestos	V9500	WALL | DRYWALL AND JOINT COMPOUND |	7	A	0	0	0	50	Presumed Asbestos	Yes
Asbestos	V9500	WALL | MORTAR	5,6,7,8,9,10,11,12,13,14,23	A	0	100	0	83	Presumed Asbestos	Yes
Asbestos	V0000	FLOOR | VINYL SHEET FLOORING |	7	A	0	120	0	0	Non Asbestos	No
Asbestos	V0000	MECHANICAL EQUIPMENT | FIBREGLASS |	6	A	0	0	0	0	Non Asbestos	No
Asbestos	V0000	MECHANICAL EQUIPMENT | NOT INSULATED |	13	A	0	0	6	0	Non Asbestos	No
Asbestos	V0000	WALL | CONCRETE (POURED) |	22	A	0	0	0	100	Non Asbestos	No
Asbestos	V0000	WALL | PREFORMED BLOCK |	22	A	0	50	0	0	Non Asbestos	No
Asbestos	V0000	WALL | STEEL	23	A	0	0	0	100	Non Asbestos	No

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

APPENDIX IV

HMIS Data Report

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

ALL DATA REPORT

PINCHIN
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Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 5 : Primary Clarifier**
Location: #1 : North Covered Walkway, Phase: A **Floor: Main** **Room #:** **Area (sqft): 800**
Survey Date: 2006-04-18 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	N/A	NI	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping		Fibreglass	Straight	Canvas	C	Y									
Piping		Parging over Fibreglass	Fitting	Canvas	C	Y		2			EA	V0009	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		1			EA	S0001	None Detected	N.D.	None
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		4			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging Cement	Fitting	Canvas	C	Y		5			EA	V9500	[None]		[None]
Piping	Heating Water Supply	Parging Cement	Fitting	Canvas	C	Y		3			EA	V0007	Chrysotile	10-25%	Confirmed Asbestos(F)
Structure	Beam, Deck	Metal	No Information	NI											
Wall		Metal	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 5 : Primary Clarifier**
Location: #2 : South Covered Walkway, Phase: A **Floor: Main** **Room #:** **Area (sqft): 800**
Survey Date: 2006-04-18 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	N/A	NI	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI		N									
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping		Fibreglass	Straight	Canvas	C	Y									
Piping		Parging Cement	Fitting	Canvas	C	Y		6			EA	S0009	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		1			EA	S0006	None Detected	N.D.	None
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		1			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		2			EA	V0007	Chrysotile	10-25%	Confirmed Asbestos(F)
Structure	Beam, Deck	Metal	No Information	NI											
Wall		Metal	No Information	NI											

Parging Cement taken from Fitting, Hot Water Return, Location 2 (South Covered Walkway), Basement, Primary Clarifier Building, North End Water Pollution Control Centre S0001 lab ref b79951 Proj no 64892 reflected as S0006 in HMIS is not asbestos containing

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 5 : Primary Clarifier**
Location: #3 : Southwest Covered Walkway, Phase: A **Floor: Main** **Room #:** **Area (sqft): 650**
Survey Date: 2006-04-18 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	N/A	NI	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping		Fibreglass	Straight	Canvas	C	Y									
Piping		Abated Material	Fitting	Canvas	C	Y					EA	V0009	[None]	50-75%	[Abated]
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Abated Material	Fitting	Canvas	C	Y					EA	V0001	[None]	N.D.	[Abated]
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Abated Material	Fitting	Canvas	C	Y					EA	V0007	[None]	10-25%	[Abated]
Structure	Beam, Deck	Metal	No Information	NI											
Wall		Metal	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 5 : Primary Clarifier**
Location: #4 : Control Chamber Room, Phase: A **Floor: Main** **Room #:** **Area (sqft): 0**
Survey Date: 2006-04-18 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	N/A	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		3			EA	V0011	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y		2							
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		4			EA	V0007	Chrysotile	10-25%	Confirmed Asbestos(F)
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		3			EA	S0010	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Rain Water Leader	Sweat Wrap pipe insulation	Straight	Canvas	C	Y		32			LF	S0002	None Detected	N.D.	None
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 5 : Primary Clarifier**
Location: #5 : Loading Area, Phase: A **Floor: Main** **Room #:** **Area (sqft): 750**
Survey Date: 2006-04-18 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	N/A	NI	No Information	NI											
Duct	Fresh Air Intake	Fibreglass	Straight	Canvas	C	Y									
Duct	Fresh Air Intake	Parging over Fibreglass	Fitting	Canvas	C	Y		7		1	EA	S0003			Not Entered
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Fibreglass	Surface	Canvas	C	Y									
Mechanical Equipment	Heating Water Tank	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI		N									
Piping		Fibreglass	Straight	Canvas	C	Y									
Piping		Parging over Fibreglass	Fitting	Canvas	C	Y		4			EA	V0009	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		24			EA	V0011	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		20			EA	V0007	Chrysotile	10-25%	Confirmed Asbestos(F)
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		2			EA	V0011	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Rain Water Leader	Sweat Wrap pipe insulation	Straight	Canvas	C	Y		24			LF	V0002	None Detected	N.D.	None
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Concrete (poured)	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 5 : Primary Clarifier**
Location: #6 : Washroom, Phase: A **Floor: Main** **Room #:** **Area (sqft): 40**
Survey Date: 2006-04-18 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	N/A	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Domestic Hot Water	Fibreglass	No Information	Metal								0000	Non-Asbestos		None
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 5 : Primary Clarifier**
Location: #7 : Control Room, Phase: A **Floor: Main** **Room #:** **Area (sqft): 120**
Survey Date: 2006-04-18 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling tiles (glue-on)	Surface	N/A	C	Y		110	10		SF	S0004	None Detected	N.D.	None
Duct	Not Found	NI	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		120			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	N/A	NI	No Information	NI	NA										
Wall	All	Drywall and joint compound	Surface	Paint	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	No Information	NI											

New VSF Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 5 : Primary Clarifier**
Location: #8 : Electrical Room, Phase: A **Floor: Main** **Room #:** **Area (sqft): 120**
Survey Date: 2006-04-18 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Drywall and joint compound										V9500	Presumed Asbestos		Presumed Asbestos(NF)
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Floor		Rubber	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Electrical Panel	Not Insulated	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	N/A	NI	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 5 : Primary Clarifier**
Location: #9 : Ventilation Room, Phase: A **Floor: Main** **Room #:** **Area (sqft): 400**
Survey Date: 2006-04-18 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	N/A	NI	No Information	NI											
Duct	Exhaust	Not Insulated	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Fibreglass	Surface	Canvas	C	Y									
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		4			EA	V0011	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		4			EA	V0007	Chrysotile	10-25%	Confirmed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Concrete (poured)	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 5 : Primary Clarifier**
Location: #10 : East Gallery Tank No. 4, Phase: A **Floor: Main** **Room #:** **Area (sqft): 600**
Survey Date: 2006-04-18 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	N/A	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Fibreglass	Surface	Canvas	C	Y									
Other	Not Found	NI	No Information	NI											
Piping		Fibreglass	Straight	Canvas	C	Y									
Piping		Parging over Fibreglass	Fitting	Canvas	C	Y		1			EA	S0005	None Detected	N.D.	None
Piping		Parging over Fibreglass	Fitting	Canvas	C	Y		11			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping		Fibreglass	Straight	Canvas	C	Y									
Piping		Parging over Fibreglass	Fitting	Canvas	C	Y					EA	S0008	None Detected	N.D.	None
Piping		Parging over Fibreglass	Fitting	Canvas	C	Y		11			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Abated Material	Fitting	Canvas	C	Y					EA	V0001	[None]	N.D.	[Abated]
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Abated Material	Fitting	Canvas	C	Y					EA	V0007	[None]	10-25%	[Abated]
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Concrete (poured)	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 5 : Primary Clarifier**
Location: #11 : East Gallery Tank No. 5, Phase: A **Floor: Main** **Room #:** **Area (sqft): 600**
Survey Date: 2006-04-18 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	N/A	NI	No Information	NI											
Duct	Air Handling Unit	Parging over Fibreglass	Surface	Canvas	C	Y		100			%	S0012	None Detected	N.D.	None
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping		Fibreglass	Straight	Canvas	C	Y									
Piping		Parging over Fibreglass	Fitting	Canvas	C	Y		10			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping		Fibreglass	Straight	Canvas	C	Y									
Piping		Parging over Fibreglass	Fitting	Canvas	C	Y		10			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		12			EA	V0011	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		12			EA	V0007	Chrysotile	10-25%	Confirmed Asbestos(F)
Piping	Rain Water Leader	Fibreglass	Straight	Canvas	C	Y									
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		6			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Concrete (poured)	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 5 : Primary Clarifier**
Location: #12 : North & South Wall, Phase: A **Floor: Main** **Room #:** **Area (sqft): 300**
Survey Date: 2006-04-18 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	N/A	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Fibreglass	Straight	Canvas	D	Y									
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	D	Y		1			EA	V0010	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Concrete (poured)	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 5 : Primary Clarifier**
Location: #13 : West and South Wall, Phase: A **Floor: Main** **Room #:** **Area (sqft): 1500**
Survey Date: 2006-04-18 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	N/A	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Fan Unit	Not Insulated	Surface	N/A	B	Y		6			EA	V0000	Non-Asbestos		None
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Fibreglass	Straight	Canvas	D	Y									
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	D	Y		2			EA	V0010	Chrysotile	50-75%	Confirmed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Concrete (poured)	No Information	NI											

Mortar on concrete block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 5 : Primary Clarifier**
Location: #14 : Sludge Pump Room, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 2000**
Survey Date: 2006-04-18 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	N/A	NI	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping		Fibreglass		Canvas	C	Y									
Piping		Parging over Fibreglass	Fitting	Canvas	C	Y		14			EA	V0009	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		15			EA	V0011	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		17			EA	V0007	Chrysotile	10-25%	Confirmed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Concrete (poured)	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 5 : Primary Clarifier**
Location: #15 : Scum Room, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 800**
Survey Date: 2006-04-18 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	N/A	NI	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Exchanger	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping		Parging over Fibreglass	Fitting	Canvas	C	Y		1			EA	V0009	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		14			EA	S0011	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		28			EA	V0001	None Detected	N.D.	None
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		28			EA	S0007	Chrysotile	10-25%	Confirmed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Parging Cement taken from Fitting, Hot Water Supply, Location 15 (Scum Room), Basement, Primary Clarifier Building, North End Water Pollution Control Centre S0002 lab ref b79951 Proj no 64892 reflected as S0007 in HMIS

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 5 : Primary Clarifier**
Location: #16 : Gallery No. 4, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 1700**
Survey Date: 2006-04-18 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	N/A	NI	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		14			EA	V0011	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		28			EA	V0007	Chrysotile	10-25%	Confirmed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 5 : Primary Clarifier**
Location: #17 : Gallery No. 6, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 1700**
Survey Date: 2006-04-18 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	N/A	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 5 : Primary Clarifier**
Location: #18 : Primary Clarifier Gallery, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 1360**
Survey Date: 2006-04-18 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	N/A	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		4			EA	V0011	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		4			EA	V0007	Chrysotile	10-25%	Confirmed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 5 : Primary Clarifier**

Location: #19 : Control Chamber Basement, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 800**

Survey Date: 2006-04-18 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		5			EA	V0011	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		5			EA	V0007	Chrysotile	10-25%	Confirmed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 5 : Primary Clarifier**
Location: #20 : Gallery No. 5, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 3584**
Survey Date: 2006-04-18 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	N/A	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 5 : Primary Clarifier**
Location: #21 : Gallery No. 3, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 1100**
Survey Date: 2006-04-18 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	N/A	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		22			EA	V0011	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		9			EA	V0007	Chrysotile	10-25%	Confirmed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 5 : Primary Clarifier**
Location: #22 : Clarifier Control Bldg (by Primary Clarifier) Exterior Wall, Phase: A **Floor: Main** **Room #: Exterior** **Area (sqft): 0**
Survey Date: 2006-04-18 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Wall	Exterior	Concrete (poured)	Surface	N/A	A	Y		100			%	V0000	Non-Asbestos		None
Wall	Exterior	Plaster	Surface	N/A	A	Y		9600			SF	S0013	None Detected	N.D.	None
Wall	Exterior	Preformed Block	Surface	N/A	A	Y		50			SF	V0000	Non-Asbestos		None
Wall	Exterior	Caulking	Surface	N/A	A	Y		150			LF	S0014	Chrysotile	1-5%	Confirmed Asbestos(NF)

Roof sections needs to be tested prior to any renovation or demolition activities.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 5 : Primary Clarifier**
Location: #23 : Primary Clarifier Exterior Wall, Phase: A **Floor: Main** **Room #: Exterior** **Area (sqft): 0**
Survey Date: 2006-04-18 **Last Re-Assessment: 2021-06-24**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Wall	Exterior	Steel	Surface	N/A	A	Y		100			%	V0000	Non-Asbestos		None
Wall	Exterior	Mortar	Surface		A	Y		100			SF	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Caulking						100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Mortar suspect to contain asbestos. Roof needs to be tested prior to any renovation or demolition activities.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

FINAL

Asbestos Reassessment

Priority One, Phase 2 Lift/Flood Stations and Barker Standby Generator Building
Various Locations,
Winnipeg, Manitoba

Prepared for:

City of Winnipeg Water and Waste Department
110 – 1199 Pacific Avenue
Winnipeg, Manitoba R3E 3S8

October 14, 2021

Pinchin File: 289439

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EXECUTIVE SUMMARY

City of Winnipeg Water and Waste Department (Client) retained Pinchin Ltd. (Pinchin) to conduct an asbestos building materials reassessment of the Priority One, Phase 2 Lift/Flood Stations and Barker Standby Generator Building located at Various Locations, Winnipeg, Manitoba. The reassessments were performed on July 6, July 7, and July 13, 2021

The objective of the reassessments were to evaluate the condition and quantity of previously reported asbestos-containing materials (ACM), and develop corrective action plans as required for the purposes of long-term management. The results of this assessment are not intended for construction, renovation, demolition or project tendering purposes.

The reassessment was based on information gathered from the original comprehensive assessment report completed by Pinchin dated July 23, 2008 and subsequent survey update reports. The results of the original report and subsequent survey update reports were reviewed prior to completing the reassessment.

The assessed areas were limited to parts of the buildings where the original report had indicated asbestos-containing materials (ACMs) were present. Buildings or rooms where no ACMs were reported were not inspected. The following buildings were included in this year's reassessment:

- Ash Lift Station
- Ash Flood Station
- Archibald Lift Station
- Armstrong Diversion Chamber
- Aubrey Flood Station
- Baltimore Lift Station
- Bannatyne Flood Pumping Station
- Barker Standby Generator Building
- Burrows Lift Station
- Clifton Lift Station
- Clarence Lift Station
- Cockburn Combined Lift/Flood Station
- Ferry Road Lift Station
- Heritage Lift Station
- Jefferson Diversion Station
- Keewatin Underpass Lift Station
- King Edward Lift Station
- Mager Lift Station
- Manitoba Lift Station
- Mayfair Combined Station
- Metro Route 90 Lift Station
- Pulberry Lift Station
- Syndicate Lift Station
- St. Charles Lift Station

- Colony Flood Pumping Station
- Colony Diversion Chamber
- Conway Lift Station
- Cornish Lift Station
- Dugald Road Lift Station
- Tuxedo Lift Station
- Tylerhurst Lift Station
- Westwood Lift Station
- Willow Lift Station
- Wexford Lift Station

HMIS data has been updated online. Eighteen additional exterior mortar samples were collected. Asbestos was not detected. Results are presented in Appendix I.

SUMMARY OF FINDINGS

Asbestos-containing materials (ACM) are present as follows:

- Asbestos-containing vermiculite is present in masonry block wall cavities in various buildings. Vermiculite is a friable material. Minor amounts of debris and damaged hollow core was observed present within the Burrows Lift Station. Manitoba Lift Station and Metro Route 90 Lift Station.
- Asbestos-containing transite cement is present as ducting throughout various buildings. Transite cement is non-friable and is in GOOD condition.
- Asbestos-containing transite boards are present as wall and ceiling finishes in various buildings. The transite boards are non-friable and were in GOOD condition.
- Asbestos-containing duct tape present as a sealant on duct joints within Location No.2 Ash Lift Station is non-friable and is in GOOD condition.
- Asbestos-containing mastic present on ducting within Location No.1, Cornish Lift Station is in good condition.
- The fittings and ends of the generator exhaust within the Barker Standby Generator Building are coated with an asbestos-containing silver mastic. The mastic is a non-friable material which was in GOOD condition.
- Asbestos-containing caulking present on the exterior of various buildings is nonfriable and has been maintained in GOOD condition; and
- Mortar in the concrete block masonry/brick tiles in various buildings is presumed to contain asbestos, is potentially friable and is in GOOD condition.

SUMMARY OF RECOMMENDATIONS

The following is a summary of significant recommendations; refer to the body of the report for detailed recommendations.

1. The following items require immediate remedial action:
    i. Repair/seal 1 SF of exposed vermiculite within exterior hollow core wall cavity of the Burrows Lift Station following Moderate Risk Procedures;
    ii. Remove 5 SF of vermiculite debris from the floor within the Manitoba Lift Station following Moderate Risk Procedures; and
    iii. Repair/seal 1 SF of exposed vermiculite within the exterior hollow core wall cavity of the Metro Route 90 Lift Station.
2. Perform a reassessment of asbestos materials on an annual basis.
3. Prior to renovations or demolition, perform a pre-construction assessment to identify any hazardous materials that may be disturbed by the work.
4. Follow appropriate safe work procedures when handling or disturbing asbestos.

This Executive Summary is subject to the same standard limitations as contained in the report and must be read in conjunction with the entire report.

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APPENDICES

1.0 INTRODUCTION AND SCOPE

City of Winnipeg Water and Waste Department (Client) retained Pinchin Ltd. (Pinchin) to conduct an asbestos building materials reassessment at Various Locations, Winnipeg, Manitoba.

Pinchin performed the reassessments on July 6, July 7, and July 13, 2021. The surveyor was accompanied by City of Winnipeg Water and Waste Representative during the reassessment. The assessed area was occupied at the time of the assessment.

The objectives of the reassessment were to document the locations, quantities and conditions of previously identified asbestos containing building materials and develop corrective action plans as required. This reassessment is only to be used for the purposes of long-term management and routine maintenance. The results of this reassessment are not to be used for construction, renovation, demolition or project tendering purposes.

1.1 Scope of Assessment

The objective of the reassessment was to evaluate the condition and quantity of previously reported asbestos-containing materials (ACM), and develop corrective action plans as required.

Additional objectives included the following:

- Documentation of any asbestos abatement that was performed since the last reassessment; and
- Additional sampling to delineate previously presumed ACM.

Please refer to Appendix I for a detailed description of the methodology used for this assessment.

The assessed areas were limited to parts of the buildings where the original report had indicated asbestos-containing materials (ACMs) were present. Buildings or rooms where no ACMs were reported were not inspected. The following buildings were included in this year's reassessment:

- Ash Lift Station
- Ash Flood Station
- Archibald Lift Station
- Armstrong Diversion Chamber
- Aubrey Flood Station
- Baltimore Lift Station
- Ferry Road Lift Station
- Heritage Lift Station
- Jefferson Diversion Station
- Keewatin Underpass Lift Station
- King Edward Lift Station
- Mager Lift Station

- Bannatyne Flood Pumping Station
- Barker Standby Generator Building
- Burrows Lift Station
- Clifton Lift Station
- Clarence Lift Station
- Cockburn Combined Lift/Flood Station
- Colony Flood Pumping Station
- Colony Diversion Chamber
- Conway Lift Station
- Cornish Lift Station
- Dugald Road Lift Station
- Manitoba Lift Station
- Mayfair Combined Station
- Metro Route 90 Lift Station
- Pulberry Lift Station
- Syndicate Lift Station
- St. Charles Lift Station
- Tuxedo Lift Station
- Tylerhurst Lift Station
- Westwood Lift Station
- Willow Lift Station
- Wexford Lift Station

2.0 METHODOLOGY

Pinchin conducted an inspection of previously identified asbestos-containing materials (ACM) to evaluate the current condition of all accessible identified in the most recent assessment. The surveyor made reference to any existing assessment or abatement reports (as provided by the Client).

As per the original scope of work, concealed locations such as ceiling spaces above solid ceilings, shafts and chases were accessed via existing access panels. Our investigation did not include demolition of drywall or plaster walls to view concealed conditions. Structural items or exterior building finishes were not removed to determine the presence of concealed materials.

For further details on the methodology including test methods, refer to Appendix II.

3.0 BACKGROUND INFORMATION

3.1 Existing Reports and Summary of Asbestos Abatement

3.1.1 Review of Previous Reports

The reassessment was based on information gathered from the original comprehensive assessment report and subsequent survey update reports completed by Pinchin. The original and survey update reports for the various locations of Priority One, Phase 2 Lift/Flood Stations and Barker Standby

Generator Building was dated July 23, 2008. The results of the original report and subsequent survey update reports were reviewed prior to completing the reassessment.

3.1.2 Summary of Asbestos Abatement since the Previous Assessment

Based on a review of the above noted abatement reports, and observations made during the reassessment, asbestos abatement has not been conducted since the last assessment.

4.0 FINDINGS

The following section summarizes the findings of the reassessment and provides a general description of the asbestos-containing materials (ACM) identified and their locations.

For details on approximate quantities, condition, friability and locations of asbestos materials; refer to the Asbestos Material Summary Report and HMIS Data Report in Appendix IV and V.

Appendix I presents the asbestos bulk sample analytical results.

4.1 Archibald Lift Station

4.1.1 Vermiculite

Exterior masonry block walls are suspect to be insulated with vermiculite. No vermiculite debris was present.

4.1.2 Plaster (Exterior)

Exterior plaster present on the soffit has not been sampled. It is presumed to contain asbestos. The plaster is potentially friable and is in GOOD condition.

4.1.3 Sealants, Caulking and Putty (Exterior)

Caulking present behind the wire mesh on the exterior of the building is suspect to contain asbestos. Caulking is a non-friable material which is in GOOD condition.

4.1.4 Roofing Products

Built up roofing materials have not been sampled. In the absence of visual inspection and or testing, roofing materials have been presumed to contain asbestos.

4.1.5 Other Building Materials

Mortar on masonry block walls is presumed to contain asbestos. It is potentially friable and is in GOOD condition.

4.2 Ash Lift Station

4.2.1 Sealants, Caulking and Putty

Duct tape containing asbestos is present on joints and seams of ducting. The duct tape is a non-friable material and is in GOOD condition.

4.2.2 Other Building Materials

Mortar present on masonry walls throughout the facility is presumed to contain asbestos. It is a potentially friable matters that is in GOOD condition.

4.2.3 Exterior Finishes and Roofing Materials

Mortar present on exterior masonry walls is presumed to contain asbestos. It is a potentially friable material that is in good condition.

Roofing materials including; asphalt shingles and tar have not been sampled therefore are presumed to contain asbestos.

4.3 Ash Flood Station

4.3.1 Asbestos Cement Products (Transite)

Asbestos cement board is present as roof panels and soffits. Asbestos cement board is a non-friable material and is in GOOD condition.

3.4.2 Roofing Products

Roofing materials including; asphalt shingles and tar have not been sampled. In the absence of sampling are presumed asbestos-containing.

4.3.2 Other Building Materials

Mortar present on masonry walls throughout the facility is presumed to contain asbestos. It is potentially friable and is in GOOD condition.

4.4 Armstrong Diversion Chamber

4.4.1 Exterior Finishes and Roofing Materials

Mortar present on exterior masonry walls was confirmed to be non-asbestos by analysis of samples 0001A-C. Reference attached Lab ID R6725892.

Roofing materials have not been tested at this location. In the absence of testing are presumed asbestos-containing.

4.5 Aubrey Flood Station

3.6.1 Other Building Materials (Interior)

Mortar present on interior masonry walls is presumed to contain asbestos. It is potentially friable and is in good condition

3.6.2 Exterior finishes and Roofing Products

Asbestos-containing caulking is present on exterior venting. Caulking is a non-friable material which was in GOOD condition.

Mortar present on exterior masonry walls is presumed to contain asbestos. It is potentially friable and is in good condition.

Roofing materials have not been tested at this location. In the absence of testing are presumed asbestos-containing.

4.6 Baltimore Lift Station

4.6.1 Vermiculite

Vermiculite is suspect to be present within Masonry block walls throughout this facility. Vermiculite is a friable material. No vermiculite debris was observed.

4.6.2 Roofing Products

No visual inspection or sampling was conducted at this location. In the absence of visual inspection and or testing, roofing materials have been presumed to contain asbestos.

4.6.3 Other Building Materials

Mortar and grout present on concrete block walls throughout the facility is presumed to contain asbestos. It is potentially friable and is in GOOD condition.

4.7 Bannatyne Flood Pumping Station

4.7.1 Other Building Materials

Mortar present on exterior masonry walls was determined to be non-asbestos by analysis of Samples 0003A-C Lab ID R6725892.

4.8 Barker Standby Generator Building

4.8.1 Duct Insulation

The fittings and ends of the generator exhaust within the Barker Standby Generator Building are coated with an asbestos-containing silver mastic. The mastic is a non-friable material which is in GOOD condition.

4.8.2 Vermiculite

Vermiculite is suspect to be present within masonry block walls throughout this facility. Vermiculite is a friable material. No vermiculite debris was observed.

4.8.3 Roofing Products

The roof was assessed and determined to be comprised of non-asbestos cedar wood shingles.

4.8.4 Other Building Materials

Mortar present on the concrete block walls throughout the facility is presumed to contain asbestos, is potentially friable and is in GOOD condition.

4.9 Burrows Lift Station

4.9.1 Vermiculite

Vermiculite has been confirmed to be present within hollow core wall cavities which are present throughout the facility. Approximately 1 SF of damaged hollow core wall exposing vermiculite is present on the exterior of the building.

4.9.2 Other Building Materials

Mortar on masonry walls is presumed to contain asbestos. Mortar is potentially friable and was in GOOD condition.

4.9.3 Roofing Products

No visual inspection or sampling was conducted at this location In the absence of visual inspection and or testing, roofing materials have been presumed to contain asbestos.

4.10 Clarence Lift Station

4.10.1 Vermiculite

Vermiculite is suspect to be present within masonry block walls throughout this facility. Vermiculite is a friable material. No vermiculite debris was observed.

4.10.2 Asbestos Cement Products (Transite)

Asbestos cement is present as ducting throughout the building. It is a non-friable material which is in GOOD condition.

4.10.3 Roofing Products

Built-up roofing materials are presumed to contain asbestos, are non-friable and in GOOD condition.

4.10.4 Other Building Materials

Mortar present on masonry walls throughout the interior and exterior if the facility is presumed to contain asbestos, is potentially friable and is in GOOD condition.

4.11 Clifton Lift Station

4.11.1 Vermiculite

Vermiculite is suspect to be present within masonry block walls throughout this facility. Vermiculite is a friable material. No vermiculite debris was observed.

4.11.2 Roofing Products

Built-up roofing materials have not been tested therefore are presumed to be asbestos-containing.

4.11.3 Other Building Materials (Exterior)

Mortar present on exterior masonry walls is presumed to contain asbestos. It is potentially friable and in GOOD condition.

4.12 Cockburn Combined Lift/Flood Station

4.12.1 Other Building Materials

Mortar present on exterior masonry walls is presumed to contain asbestos. Mortar is potentially friable and is in GOOD condition.

4.13 Colony Flood Pumping Station

4.13.1 Exterior Building Finishes r

Plaster present on exterior walls is presumed to contain asbestos. Plaster is potentially friable and is in GOOD condition.

Mortar present on exterior masonry walls is presumed to contain asbestos. Mortar is potentially friable and is in GOOD condition.

Built-up roofing materials have not been sampled and are presumed to contain asbestos. The roof was not accessed during our assessment.

4.14 Colony Diversion Chamber

4.14.1 Other Building Materials

Exterior mortar was determined to be non-asbestos by analysis of Samples 0004A-C Lab ID R6725892.

4.15 Conway Lift Station

4.15.1 Exterior Building Finishes

Exterior plaster is presumed to contain asbestos. Plaster is potentially friable and is in GOOD condition,

Mortar present on exterior masonry walls is presumed to contain asbestos. Mortar is potentially friable and is in GOOD condition.

Built up roofing materials are presumed to contain asbestos. The roof was not accessed during our assessment.

4.16 Cornish Lift Station

4.16.1 Sealants, Caulking and Putty

Asbestos-containing red mastic is applied to duct joints throughout the building. The mastic is a non-friable material which is in GOOD condition.

4.16.2 Roofing Products

Roofing materials including, asphalt shingles and tar have not been tested. They are presumed to contain asbestos.

4.16.3 Other Building Materials

Mortar on masonry walls throughout the facility is presumed to contain asbestos. It is potentially friable and is in GOOD condition.

4.17 Dugald Road Lift Station

4.17.1 Other Building Materials (Exterior)

Mortar present on the exterior masonry walls was determined to be non-asbestos based on analysis of Samples 0006A-C. Lab ID R6725892.

4.18 Ferry Road Lift Station

4.18.1 Roofing Products

Built-up roofing materials present have not been sampled. They are presumed to contain asbestos.

4.18.2 Other Building Materials

Mortar present on the exterior masonry walls is presumed to be asbestos containing. Mortar is potentially friable and is in GOOD condition.

4.19 Heritage Lift Station

4.19.1 Asbestos Cement Products (Transite)

Asbestos cement board is present on ducting and wall and ceiling finishes throughout the building. Asbestos cement board is non-friable material and is in GOOD condition.

4.19.2 Roofing Products

No visual inspection or sampling was conducted at this location. In the absence of visual inspection and or testing, roofing materials are presumed to contain asbestos.

4.20 Jefferson Lift Station

4.20.1 Other Building Materials (Exterior)

Mortar present on the exterior masonry walls was determined to be non-asbestos based on analysis of Samples 0002A-C. Lab ID R6725892.

4.21 Keewatin Under Pass Lift Station

4.21.1 Vermiculite

Vermiculite is suspect to be present within exterior Masonry block walls. Vermiculite is a friable material. No vermiculite debris was observed.

4.21.2 Roofing Products

No visual inspection or sampling was conducted at this location. In the absence of visual inspection and or testing, roofing materials have been presumed to contain asbestos.

4.22 King Edward Lift Station

4.22.1 Vermiculite

Vermiculite is suspect to be present within masonry block walls throughout this facility. Vermiculite is a friable material. No vermiculite debris was observed.

4.22.2 Roofing Products

Built-up roofing materials present at this location have not been sampled. In the absence of visual inspection and or testing, roofing materials have been presumed to contain asbestos.

4.22.3 Other Building Materials

Mortar present on masonry walls throughout the facility is presumed to contain asbestos. it is potentially friable and in GOOD condition.

4.23 Mager Lift Station

4.23.1 Asbestos Cement Products (Transite)

Asbestos cement board is present as ceiling and wall finish throughout the building. It is non-friable and in GOOD condition.

4.23.2 Roofing Products

Roofing materials including; asphalt shingles and tar products have not been sampled. In the absence of visual inspection and or testing, roofing materials have been presumed to contain asbestos.

4.23.3 Other Building Materials

Mortar present on masonry walls throughout the facility is presumed to contain asbestos. It is potentially friable and in GOOD condition.

4.24 Manitoba Lift Station

4.24.1 Vermiculite

Vermiculite containing asbestos has been previously identified within the front hollow core wall of the building. All remaining hollow core walls are presumed to contain vermiculite. Five square feet of vermiculite debris is present on the floor within the interior of the building. Vermiculite is a friable material.

4.24.2 Roofing Products

Non-asbestos cedar wood is present as roofing finish.

4.24.3 Other Building Materials

Mortar present on masonry walls throughout the facility is presumed to contain asbestos. It is potentially friable and in GOOD condition.

4.25 Mayfair Combined Station

4.25.1 Roofing Products

No visual inspection or sampling was conducted at this location. In the absence of visual inspection and or testing, roofing materials have been presumed to contain asbestos.

4.25.2 Other Building Materials

Mortar present on the exterior masonry walls is presumed to contain asbestos. Mortar is potentially friable and is in GOOD condition.

Caulking present on exterior masonry walls is presumed to contain asbestos. Caulking is non-friable and is in GOOD condition.

4.26 Metro Route 90 Lift Station

4.26.1 Vermiculite

Vermiculite has been confirmed present within Masonry block walls throughout this facility. Vermiculite is a friable material. One square foot of damaged masonry wall exposing vermiculite is present on the exterior South side of the Building.

4.26.2 Roofing Products

No visual inspection or sampling was conducted at this location. In the absence of visual inspection and or testing, roofing materials have been presumed to contain asbestos.

4.26.3 Other Building Materials

Mortar and grout present on the concrete block masonry throughout the facility is presumed to contain asbestos. It is potentially friable and in GOOD condition.

4.27 Pulberry Lift Station

4.27.1 Asbestos Cement Products (Transite)

Asbestos cement is present on ducting throughout the building. It is non-friable and is in GOOD condition.

4.27.2 Roofing Products

No visual inspection or sampling was conducted at this location. In the absence of visual inspection and or testing, roofing materials have been presumed to contain asbestos.

4.27.3 Other Building Materials

Mortar present on masonry block walls throughout the facility is presumed to contain asbestos. It is potentially friable and in GOOD condition.

4.28 Syndicate Lift Station

4.28.1 Roofing Products

Roofing materials have not been sampled at this location. In the absence of visual inspection and or testing, roofing materials have been presumed to contain asbestos.

4.28.2 Other Building Materials (Exterior)

Mortar present on masonry walls throughout the facility is presumed to contain asbestos. Mortar is potentially friable and is in GOOD condition.

4.29 St. Charles Lift Station

4.29.1 Asbestos Cement Products (Transite)

Asbestos cement is present as ducting throughout the building. It is non-friable and it is in GOOD condition.

4.29.2 Roofing Products

Roofing materials including; asphalt shingles and tar products have not been sampled at this location. In the absence of visual inspection and or testing, roofing materials have been presumed to contain asbestos.

4.30 Tuxedo Lift Station

4.30.1 Vermiculite

Vermiculite is suspect to be present within Masonry block walls throughout this facility. Vermiculite is a friable material. No vermiculite debris was observed.

4.30.2 Asbestos Cement Products (Transite)

Asbestos cement boards is present as wall finish throughout the building. It is non-friable and in GOOD condition.

4.30.3 Roofing Products

No visual inspection or sampling was conducted at this location. In the absence of visual inspection and or testing, roofing materials have been presumed to contain asbestos.

4.30.4 Other Building Materials

Mortar present on masonry block walls throughout the facility is presumed to contain asbestos. It is potentially friable and in GOOD condition.

4.31 Tylerhurst Lift Station

4.31.1 Roofing Products

No visual inspection or sampling was conducted at this location. In the absence of visual inspection and or testing, roofing materials have been presumed to contain asbestos.

4.31.2 Other Building Materials

Mortar present on the exterior masonry walls was determined to be non-asbestos by analysis of Samples 0005A-C Lab ID R6725892.

4.32 Westwood Lift Station

4.32.1 Other Building Materials

Caulking present on exterior masonry walls contains asbestos. Caulking is non-friable and is in Good condition.

4.32.1 Roofing Products

No visual inspection or sampling was conducted at this location. In the absence of visual inspection and or testing, roofing materials have been presumed to contain asbestos.

4.33 Wexford Lift Station

4.33.1 Vermiculite

Vermiculite is suspect to be present within Masonry block walls throughout this facility. Vermiculite is a friable material. No vermiculite debris was observed.

4.33.2 Asbestos Cement Products (Transite)

Asbestos cement is present on ducting throughout the building. It is non-friable and in GOOD condition.

4.33.3 Roofing Products

No visual inspection or sampling was conducted at this location. In the absence of visual inspection and or testing, roofing materials have been presumed to contain asbestos.

4.33.4 Other Building Materials

Mortar present on masonry block walls throughout the facility is presumed to contain asbestos. It is potentially friable and in GOOD condition.

4.34 Willow Lift Station

4.34.1 Other Building Materials

Caulking present on exterior masonry walls contains asbestos. Caulking is non-friable and is in Good condition.

4.35 Excluded Asbestos Materials

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

- Roofing felts and tar, mastics;
- Floor levelling compound;
- Ceramic tile setting compound;
- Elevator and lift brakes;
- Electrical components;
- Moulded plastic components (laboratory bench tops);
- Refractory materials and insulations in boilers, incinerators and stacks;
- Insulation under metal clad boilers and vessels;

- Mechanical packing, ropes and gaskets;
- Adhesives and duct mastics;
- Putties;
- Fibre-reinforced paints and coatings;
- Paper products;
- Soffit and fascia boards;
- Fire resistant doors;;
- Metal clad finishes (Galbestos);
- Stucco, plaster or other cementitious parge coatings;
- Vibration dampers on HVAC equipment;
- Terrazzo;
- Ropes and gaskets in cast-iron bell and spigot joints; and
- Sealants on pipe threads.

5.0 RECOMMENDATIONS

5.1 General

Perform a detailed intrusive assessment prior to building renovation or demolition operations. The assessment should include; destructive testing (e.g. coring and/or removal of building finishes and components), sampling of other hazardous materials (lead, mercury, PCBs, mould, etc.), and materials not tested in this study (e.g. roofing materials, caulking, mastics).

5.2 Remedial Work

The following remedial work is recommended:

Material, Quantity & Condition	Location Name (Location #)	Recommended Procedure
Exposed Vermiculite, 1 SF	Burrows Lift Station, Exterior wall	Repair/Seal hollow Core following Moderate Risk Procedures
Exposed Vermiculite, 1 SF	Metro Route 90 Lift Station, Exterior wall	Repair/Seal hollow Core following Moderate Risk Procedures
Vermiculite Debris, 5 SF	Manitoba Lift Station Building interior	Remove following Moderate Risk Procedures.

5.3 On-going Management and Maintenance

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

Perform a reassessment of asbestos materials on an annual basis.

Monitor the condition of asbestos by conducting a reassessment on a regular basis.

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

Update the asbestos inventory report for the building upon completion of any abatement of ACM.

6.0 TERMS AND LIMITATIONS

This work was performed subject to the Terms and Limitations presented or referenced in the proposal for this project.

Information provided by Pinchin is intended for Client use only. Pinchin will not provide results or information to any party unless disclosure by Pinchin is required by law. Any use by a third party of reports or documents authored by Pinchin or any reliance by a third party on or decisions made by a third party based on the findings described in said documents, is the sole responsibility of such third parties. Pinchin accepts no responsibility for damages suffered by any third party as a result of decisions made or actions conducted. No other warranties are implied or expressed.

7.0 REFERENCES

The following legislation and documents were referenced in completing the assessment and this report:

1. Workplace Safety and Health Act W210.
2. Workplace Safety and Health Hazard Regulation (Manitoba Regulation 217/2006), under the Workplace Safety and Health Act.
3. Manitoba Regulation MR 474/88, Manitoba PCB Regulation made under The Dangerous Goods Act.
4. Guide for Asbestos Management – Safe Work Manitoba.
5. Guideline Managing Demolition Debris Containing Hazardous Materials – Environmental Enforcement and Compliance Branch – Manitoba Conservation and Climate

6. Canada Occupational Health and Safety Regulation, SOR/86-304.
7. Consolidated Transportation of Dangerous Goods Regulations, including Amendment SOR/2019-101, Transportation of Dangerous Goods Act.

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Template: Master Report for Asbestos Reassessment, HAZ, July 29, 2021

APPENDIX I

Asbestos Analytical Certificates

Your Project #: 289439
Site Location: LIFT STATIONS
Your C.O.C. #: N/A

Attention: Ken Brydges

Pinchin Ltd
54 Terracon Pl
Winnipeg, MB
CANADA R2J 4G7

Report Date: 2021/07/19
Report #: R6725892
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1J5328
Received: 2021/07/14, 09:44

Sample Matrix: Solid
Samples Received: 18

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Asbestos by PLM - 0.5 RDL (1)	18	N/A	N/A	COR3SOP-00002	EPA 600R-93/116

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Bureau Veritas Laboratories' Asbestos Laboratory is accredited by NVLAP for bulk asbestos analysis by polarized light microscopy, NVLAP Code 600136-0.

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Bureau Veritas Laboratories' scope of accreditation includes EPA-600/M4-82-020: "Interim Method for the Determination of Asbestos in Bulk Insulation Samples" and EPA-600/R-93/116: "Method for the Determination of Asbestos in Bulk Building Materials".
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) P.O.B. - Percent of Bulk

When Asbestos data is reported with other data, this report contains data that are not covered by the NVLAP accreditation.

Your Project #: 289439
Site Location: LIFT STATIONS
Your C.O.C. #: N/A

Attention: Ken Brydges

Pinchin Ltd
54 Terracon Pl
Winnipeg, MB
CANADA R2J 4G7

Report Date: 2021/07/19
Report #: R6725892
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1J5328
Received: 2021/07/14, 09:44

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Antonella Brasil, Senior Project Manager
Email: Antonella.Brasil@bureauveritas.com
Phone# (905)817-5817
==========
This report has been generated and distributed using a secure automated process.
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BV Labs Job #: C1J5328
Report Date: 2021/07/19

Pinchin Ltd
Client Project #: 289439
Site Location: LIFT STATIONS
Sampler Initials: KB

Asbestos Analytical Results

EPA/600R-93/116 by Polarized Light Microscopy

0001A 195 ARMSTRONG-EXTERIOR MORTAR

BV Labs ID: QCB764 Date Analyzed: 2021/07/16

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous grey mortar	Not Detected		Non-Fibrous

0001B 195 ARMSTRONG-EXTERIOR MORTAR

BV Labs ID: QCB765 Date Analyzed: 2021/07/16

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous grey mortar	Not Detected		Non-Fibrous

0001C 195 ARMSTRONG-EXTERIOR MORTAR

BV Labs ID: QCB766 Date Analyzed: 2021/07/16

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous grey mortar	Not Detected		Non-Fibrous

0002A 193 JEFFERSON-EXTERIOR MORTAR

BV Labs ID: QCB767 Date Analyzed: 2021/07/16

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous grey mortar	Not Detected		Non-Fibrous

The limit of quantitation is 0.50%, although asbestos may be qualitatively detected at concentrations less than 0.50%. Samples for which asbestos is detected at <0.50% are reported as trace, "<0.50%". "Not Detected" indicates that no asbestos fibres were observed.

Calibrated Visual Estimate (%)
Date Format : yyyy/mm/dd

BV Labs Job #: C1J5328
Report Date: 2021/07/19

Pinchin Ltd
Client Project #: 289439
Site Location: LIFT STATIONS
Sampler Initials: KB

Asbestos Analytical Results

EPA/600R-93/116 by Polarized Light Microscopy

0002B 193 JEFFERSON-EXTERIOR MORTAR

BV Labs ID: QCB768 Date Analyzed: 2021/07/16

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous grey mortar	Not Detected		Non-Fibrous

0002C 193 JEFFERSON-EXTERIOR MORTAR

BV Labs ID: QCB769 Date Analyzed: 2021/07/16

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous grey mortar	Not Detected		Non-Fibrous

0003A BANNATYNE FLOOD PUMPING STATION-MORTAR-EXT

BV Labs ID: QCB770 Date Analyzed: 2021/07/16

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous grey mortar	Not Detected		Non-Fibrous

0003B BANNATYNE FLOOD PUMPING STATION-MORTAR-EXT

BV Labs ID: QCB771 Date Analyzed: 2021/07/16

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous grey mortar	Not Detected		Non-Fibrous

The limit of quantitation is 0.50%, although asbestos may be qualitatively detected at concentrations less than 0.50%. Samples for which asbestos is detected at <0.50% are reported as trace, "<0.50%". "Not Detected" indicates that no asbestos fibres were observed.

Calibrated Visual Estimate (%)
Date Format : yyyy/mm/dd

BV Labs Job #: C1J5328
Report Date: 2021/07/19

Pinchin Ltd
Client Project #: 289439
Site Location: LIFT STATIONS
Sampler Initials: KB

Asbestos Analytical Results

EPA/600R-93/116 by Polarized Light Microscopy

0003C BANNATYNE FLOOD PUMPING STATION-MORTAR-EXT

BV Labs ID: QCB772 Date Analyzed: 2021/07/16

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous grey mortar	Not Detected		Non-Fibrous

0004A COLONY DIVERSION CHAMBER-MORTAR-EXT

BV Labs ID: QCB773 Date Analyzed: 2021/07/16

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous grey mortar	Not Detected		Non-Fibrous

0004B COLONY DIVERSION CHAMBER-MORTAR-EXT

BV Labs ID: QCB774 Date Analyzed: 2021/07/16

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous grey mortar	Not Detected		Non-Fibrous

0004C COLONY DIVERSION CHAMBER-MORTAR-EXT

BV Labs ID: QCB775 Date Analyzed: 2021/07/16

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous grey mortar	Not Detected		Non-Fibrous

The limit of quantitation is 0.50%, although asbestos may be qualitatively detected at concentrations less than 0.50%. Samples for which asbestos is detected at <0.50% are reported as trace, "<0.50%". "Not Detected" indicates that no asbestos fibres were observed.

Calibrated Visual Estimate (%)
Date Format : yyyy/mm/dd

BV Labs Job #: C1J5328
Report Date: 2021/07/19

Pinchin Ltd
Client Project #: 289439
Site Location: LIFT STATIONS
Sampler Initials: KB

Asbestos Analytical Results

EPA/600R-93/116 by Polarized Light Microscopy

0005A TYLHURST LIFT STATION-MORTAR-EXT

BV Labs ID: QCB776 Date Analyzed: 2021/07/16

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous grey mortar	Not Detected		Non-Fibrous

0005B TYLHURST LIFT STATION-MORTAR-EXT

BV Labs ID: QCB777 Date Analyzed: 2021/07/16

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous grey mortar	Not Detected		Non-Fibrous

0005C TYLHURST LIFT STATION-MORTAR-EXT

BV Labs ID: QCB778 Date Analyzed: 2021/07/16

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous grey mortar	Not Detected		Non-Fibrous

0006A DUGALD LUFT STATION-MORTAR EXT

BV Labs ID: QCB779 Date Analyzed: 2021/07/16

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous grey mortar	Not Detected		Non-Fibrous

The limit of quantitation is 0.50%, although asbestos may be qualitatively detected at concentrations less than 0.50%. Samples for which asbestos is detected at <0.50% are reported as trace, “<0.50%”. “Not Detected” indicates that no asbestos fibres were observed.

Calibrated Visual Estimate (%)
Date Format : yyyy/mm/dd

BV Labs Job #: C1J5328
Report Date: 2021/07/19

Pinchin Ltd
Client Project #: 289439
Site Location: LIFT STATIONS
Sampler Initials: KB

Asbestos Analytical Results

EPA/600R-93/116 by Polarized Light Microscopy

0006B DUGALD LUFT STATION-MORTAR EXT

BV Labs ID: QCB780 Date Analyzed: 2021/07/16

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous grey mortar	Not Detected		Non-Fibrous

0006C DUGALD LUFT STATION-MORTAR EXT

BV Labs ID: QCB781 Date Analyzed: 2021/07/16

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous grey mortar	Not Detected		Non-Fibrous

The limit of quantitation is 0.50%, although asbestos may be qualitatively detected at concentrations less than 0.50%. Samples for which asbestos is detected at <0.50% are reported as trace, "<0.50%". "Not Detected" indicates that no asbestos fibres were observed.

Calibrated Visual Estimate (%)
Date Format : yyyy/mm/dd

BV Labs Job #: C1J5328
Report Date: 2021/07/19

Pinchin Ltd
Client Project #: 289439
Site Location: LIFT STATIONS
Sampler Initials: KB

GENERAL COMMENTS

Results relate only to the items tested.

Bureau Veritas Laboratories 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

BV Labs Job #: C1J5328
Report Date: 2021/07/19

Pinchin Ltd
Client Project #: 289439
Site Location: LIFT STATIONS
Sampler Initials: KB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Jon Delos Santos, Laboratory Supervisor

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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APPENDIX II
Methodology

1.0 METHODOLOGY

Pinchin conducts an inspection of previously identified asbestos-containing materials (ACM) to evaluate the current condition of all accessible identified in the most recent assessment. The surveyor makes reference to any existing assessment or abatement reports (as provided by the Client).

1.1 Limitations on Scope

The reassessment excludes the following:

- Articles belonging to the owner, tenant or occupant (e.g. stored items, furniture, appliances, etc.);
- Underground materials or equipment (e.g. vessels, drums, underground storage tanks, pipes, etc.);
- Building envelope, structural components, inaccessible or concealed materials or other items where sampling may cause consequential damage to the property.
- Energized systems (e.g. internal boiler components, elevators, mechanical or electrical components);
- Controlled products (e.g. stored chemicals, operational or process-related substances); and
- Materials not typically associated with construction (e.g. settled dust, spills, residual contamination from prior spills, etc.).

As per the original scope of work, concealed locations such as ceiling spaces above solid ceilings, shafts and chases are accessed via existing access panels. Our investigation does not include demolition of drywall or plaster walls to view concealed conditions. Structural items or exterior building finishes are not removed to determine the presence of concealed materials.

1.2 Methodology

Existing sampling data is reviewed and relied upon. If sampling is conducted, samples are collected at a rate that is in compliance with the requirements of local regulations and guidelines. The sampling strategy is also based on known ban dates and phase out dates of the use of asbestos; sampling of certain building materials is not conducted after specific construction dates. In addition, to be conservative, several years past these dates are added to account for some uncertainty in the exact start / finish date of construction and associated usage of ACM.

Materials listed as exclusions in the previous reports remain as exclusions. Sampling, assessment or verification of excluded materials was not conducted.

If present, the following materials are presumed to be asbestos-containing and are best sampled immediately prior to commencing renovation/disturbance:

- Roofing felts and tar, mastics;
- Floor levelling compound;
- Ceramic tile setting compound;
- Elevator and lift brakes;
- Electrical components or wiring within control centers, breakers, motors or lights, insulation on wiring;
- Moulded plastic components (laboratory bench tops);
- Refractory materials and insulations in boilers, incinerators and stacks;
- Insulation under metal clad boilers and vessels;
- Mechanical packing, ropes and gaskets;
- Vermiculite;
- Adhesives and duct mastics;
- Caulking and putties;
- Fibre-reinforced paints and coatings;
- Paper products;
- Soffit and fascia boards;
- Fire resistant doors;
- Metal clad finishes;
- Exterior cladding;
- Stucco, plaster or other cementitious parge coatings; and
- Vibration dampers on HVAC equipment.

2.0 ANALYSIS AND IDENTIFICATION OF ASBESTOS MATERIALS

Pinchin relies on the analytical results of prior surveys. Asbestos bulk samples (if required) are analyzed at an independent NVLAP accredited laboratory. Preliminary identification of asbestos fibres is made using polarized light microscopy, with confirmation of the presence and type of asbestos made by dispersion staining optical microscopy. The analysis is performed in accordance with Test Method EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials, June 1993. All independent laboratories used by Pinchin, including our laboratory, are certified under the National Voluntary Laboratory Accreditation Program (NVLAP) to perform asbestos analysis of bulk samples.

Analytical results are compared to the following criteria:

Jurisdiction	Friable	Non-Friable
Manitoba	0.1%[1]	1%
Federal	1%	1%

The asbestos analysis is completed using a stop positive approach. Only one result meeting the above regulated criteria is required to determine that a material is asbestos-containing, but all samples must be analyzed to conclusively determine that a material is non-asbestos. The laboratory stops analyzing samples from a homogeneous material once a result equal to or greater than the regulated criteria is detected in any of the samples of that material. All samples of a homogeneous material are analyzed if no asbestos is detected. In some cases, all samples are analyzed in the sample set regardless of result.

Where building materials are described in the report as “non-asbestos” or “does not contain asbestos”, this means that either no asbestos was detected by the analytical method utilized in any of the multiple samples or, if detected, it is below the lower limit of an asbestos-containing material in the applicable regulation.

Asbestos materials are evaluated in order to make recommendations regarding remedial work. The priority for remedial action is based on several factors:

- Friability (friable or non-friable);
- Condition (good, fair, poor, debris);
- Accessibility (ranking from accessible to all building users to inaccessible);
- Visibility (whether the material is obscured by other building components); and
- Efficiency of the work (for example, if damaged ACM is being removed in an area, it may be most practical to remove all ACM in the area even if it is in good condition).

For a complete description of the Evaluation Criteria and Basis of Recommendations, refer to Annex A.

Template: Methodology for Asbestos Re-Assessment, HAZ, January 10, 2020

METHODOLOGY ANNEX A EVALUATION CRITERIA

1.0 EVALUATION CRITERIA AND BASIS OF RECOMMENDATIONS

The detailed asbestos assessment provides information regarding the location, condition, accessibility and friability of the asbestos-containing materials (ACM). In order to make recommendations for compliance with current regulations, Pinchin developed the following criteria.

2.0 EVALUATION OF CONDITION

2.1 Friable Sprayed or Trowelled Fireproofing, Thermal Insulation and Texture Finishes (Surfacing Materials)

To evaluate the condition of ACM sprayed or trowelled on fireproofing, sprayed or trowelled thermal insulation (non-mechanical), or texture, decorative or acoustic finishes, the following criteria are applied:

Good	Surface of material shows no significant signs of damage, deterioration or delamination. Good condition includes unencapsulated or unpainted fireproofing or texture finishes, where no or limited delamination or damage is observed, or encapsulated fireproofing or texture finishes where the encapsulant or paint has been applied after the damage or fallout occurred.
Poor	A sprayed material that shows signs of significant damage or is significantly delaminating or deteriorating. This may be limited to surface delamination or some portion of the substrate may be exposed.

In Locations where damage exists in isolated areas, both good and poor condition may be applicable. The extent of each condition will be recorded. Fair condition is not utilized in the evaluation of ACM sprayed or trowelled fireproofing, sprayed or trowelled thermal insulation (non-mechanical), or texture, decorative or acoustic finishes.

The evaluation of the above products above ceilings may be limited by the number of observations and by building components such as ducts or full height walls that obstruct the above ceiling observations.

2.2 Friable Mechanical or Thermal System Insulation (TSI)

To evaluate the condition of mechanical insulation on vessels, boilers, breeching, ducts, pipes, fan units, equipment etc. the following criteria are applied:

Good	Insulation is completely covered in jacketing and exhibits no evidence of damage or deterioration. No insulation is exposed. Includes conditions where the jacketing has minor damage (i.e. scuffs or stains), but the jacketing is not penetrated.
Fair	Minor penetrating damage to jacketed insulation (cuts, tears, nicks, deterioration or delamination) or undamaged insulation that has never been jacketed. Insulation is exposed but not showing surface disintegration. The extent of missing insulation ranges from minor to none. Damage can be repaired.
Poor	Original insulation jacket is missing, damaged, deteriorated or delaminated. Insulation is exposed and significant areas have been dislodged. Damage cannot be readily repaired. Includes components where insulation may have been removed incompletely.

The evaluation of mechanical insulation may be limited by the number of observations made and building components such as ducts or full height walls that obstruct observations. It is often not possible to observe each foot of mechanical insulation from all angles.

2.3 Potentially Friable Materials and Miscellaneous Friable Materials

Potentially friable ACM are products that are basically non-friable while in place but have the potential to generate friable dust upon removal or if significantly disturbed without appropriate procedures. These products may become friable if damaged. Potentially friable materials include materials such as acoustic ceiling tiles and plaster. To evaluate the condition of potentially friable materials, the following criteria are applied:

Good	No significant damage or deterioration. Still serving its intended use as a building material or finish.
Fair	Showing signs of some cracking or breakage, but is not deteriorating (e.g. cracked plaster, broken but in place ceiling tile, missing tile or section of plaster etc.). The condition is such that it is still serving its intended use as a building material or finish but may require repair for mainly cosmetic purposes.
Poor	Significant deterioration or breaking apart of the material. Material has deteriorated to the point it is not serving its intended use as building material or finish. Material has deteriorated to a point it has become friable. Normally potentially friable ACM in Poor condition is not repairable and requires at least localized removal and replacement.

2.4 Non-Friable Materials

Non-friable ACM cover a wide range of products with a wide variation in their tendency to release dust or asbestos fibres to the air. Many of these materials, (particularly where the matrix is an unweathered bitumen, asphalt or tar material) do not release fibres except in very unusual circumstances or during significant disturbance (e.g. use of abrasive power tools). Others with a cementitious matrix (asbestos-cement products) can more readily release dust due to abrasion, demolition, weathering, etc. The potential for asbestos release from non-friable ACM is always lower than from friable ACM. To evaluate the condition of non-friable Materials, the following criteria are applied:

Good	No significant damage or deterioration. Still serving its intended use as a building material or finish.
Fair	Showing signs of some cracking or breakage but is not deteriorating (e.g. cracked vinyl floor tile, missing piece of tile or transite, etc.). The condition is such that it is still serving its intended use as a building material or finish but may require repair for mainly cosmetic purposes.
Poor	Significant deterioration or breaking apart of the material to the point at which it cannot be repaired, and it will require at least local removal. Material has deteriorated to the point it is not serving its intended use as building material or finish. Material may have deteriorated to a point where traffic or disturbance may cause it to become friable.

2.5 Evaluation of ACM Debris

The identification of the exact location or presence of debris on the top of ceiling tiles is limited by the number of observations made and the presence of building components such as ducts or full height walls that obstruct observations.

The presence of fallen or dislodged ACM is noted separately from the ACM source and is referred to as Debris. Debris may be friable if from a friable ACM source or a badly deteriorated non-friable ACM source. Debris may also be non-friable (such as fallen pieces of transite sheet or mastic fittings, or broken, dislodged floor tiles).

Debris	Debris may be friable or non-friable but is always identified as debris.

2.6 Evaluation of Presumed Asbestos-Containing Material (PACM)

Presumed asbestos-containing materials (PACM), are building materials that may contain asbestos but were not sampled or analyzed due to inaccessibility or the need to perform destructive testing to obtain a reasonable sample set. Evaluation of these materials is based on the assumption that these PACM are asbestos-containing.

A list of PACM is provided in the report and they are generally not included in the detailed room by room reports. Typically, they are excluded because they are inaccessible or present in very small quantities. If PACM are evaluated, Pinchin uses the criteria that correspond with the type (and friability) of the material listed above.

3.0 EVALUATION OF ACCESSIBILITY

The accessibility of building materials known or suspected of being ACM is rated according to the following criteria:

Access (A)	Common areas of the building within reach of all building users (approximately 8 '-9' from floor or standard ceiling height). Includes other areas where occupant activities may result in disturbance of material that is not normally within reach from floor level, but may be disturbed by common activities (e.g. gymnasiums, workshops, warehouses)
Access (B)	Areas of the building accessed primarily by Maintenance/Caretaking/Janitorial Staff and within reach without use of a ladder. Includes areas within reach in Boiler Rooms, Electrical Rooms, Janitors Closets, Elevator Rooms, Mechanical Rooms, etc. Includes materials within reach from fixed ladders or catwalks, mezzanines, and accessible pipe chases.
Access (C) and Visible	Areas of the building above 8' - 9' where use of a ladder or scaffold is required to reach the ACM. Only includes ACM that are visible to view without the removal or opening of other building components such as ceiling tiles or service access panels. Visible column on HMIS sheets will say YES.
Access (C) and not Visible	Areas of the building above 8' - 9' where use of a ladder or scaffold is required to reach the ACM. Includes ACM that are not visible to view and require the removal of a building component to see, such as ceilings tiles or access panels to view and access. Includes rarely entered crawl spaces, attic spaces, etc. Observations will be limited to the extent visible from the access points. Visible column on HMIS sheets will say NO.
Access (D)	Areas of the building behind inaccessible solid ceiling systems, walls or equipment etc. where demolition of the ceiling, wall or equipment etc. is required to reach the ACM. Material inaccessible due to height or location or is only accessed under unusual situations. Evaluation of condition and extent of ACM is limited or impossible, depending on the surveyor's ability to visually examine materials in Access D.

4.0 ACTION MATRIX AND DEFINITIONS

Pinchin's evaluation of the viability of a specific asbestos control option is based on the consideration of the friability, condition, accessibility and visibility of a material. The logic used is that damaged ACM located in an area frequently accessed by all building occupants is of a higher priority than damaged ACM located in an infrequently accessed service area. The action matrix considers the potential for fibre release (primarily from friable ACM) and the possible concerns from regulatory bodies and many building occupants to all damaged ACM (including non-friable).

In any building with asbestos, many current regulations require an Asbestos Management Program be implemented. Depending on the condition and the accessibility, more active measures such as repair or removal may be recommended. The following matrix provides guidance for recommended Actions in the absence of renovation or demolition. In the event of construction or maintenance activity which will disturb ACM more aggressive control or removal will be required.

4.1 Action Matrix

The following tables outline the action decisions based on the relationship of assessed factors. Table I applies to friable ACM. Table II applies to non-friable ACM.

Table I Decision Matrix for Friable ACM

	Condition			
Access	**Good**	**Fair**	**Poor**	**Debris**
(A)	Action 5[1]	Action 5[2]	Action 3	Action 1
(B)	Action 7	Action 6[3]	Action 3	Action 1
(C) Visible	Action 7	Action 6	Action 3	Action 2
(C) Not Visible	Action 7	Action 7	Action 4	Action 2
(D)	Action 7	Action 7	Action 7	Action 7

Table II Decision Matrix for Potentially Friable and Non-Friable ACM

	Condition			
Access	**Good**	**Fair**	**Poor**	**Debris**
(A)	Action 7	Action 7[4]	Action 3	Action 1
(B)	Action 7	Action 7	Action 3	Action 1
(C) Visible	Action 7	Action 7	Action 4	Action 2
(C) Not Visible	Action 7	Action 7	Action 4	Action 2
(D)	Action 7	Action 7	Action 7	Action 7

[1] If friable ACM in access (A)/Good condition is not proactively removed Action 7 (Manage) is recommended.
[2] If friable ACM in access (A)/Fair condition is not proactively removed repair is recommended.
[3] If friable ACM in access (B)/Fair condition is likely to be disturbed after repair proactive removal is recommended.
[4] Action 7 is recommended for all non-friable ACM in Fair condition however some clients may wish to repair or take some action primarily for cosmetic reasons

4.2 Action Definitions

The following are the definitions in the Action Matrix Table presented above:

Action Definitions	
Action 1	Clean-Up of ACM Debris Restrict access that is likely to cause a disturbance of the ACM Debris and clean up ACM Debris. Utilize appropriate asbestos precautions.
Action 2	Precautions for Access Which may Disturb ACM Debris Use appropriate means to isolate the debris or to limit entry to the area which may disturb the material. At locations where ACM Debris can remain in place in lieu of removal or clean-up (e.g. Debris on top of ceiling tiles or behind lockable door), Utilize appropriate asbestos precautions to enter the area if this will disturb debris. The precautions will be required until the ACM Debris has been cleaned up.
Action 3	ACM Removal Remove ACM. Utilize asbestos procedures appropriate to the scope of the removal work. Until it is removed, restrict access to the material so it is not disturbed.
Action 4	Precautions for Work Which may Disturb ACM in Poor Condition. Utilize appropriate asbestos precautions if ACM may be disturbed by work on or near ACM. This does not require restricting access to the area, only control of work which may contact or disturb the ACM. Removal is the only viable option if work will disturb ACM.
Action 5	Proactive ACM Removal Remove friable ACM where the presence of friable asbestos in Good condition is not desirable. If friable ACM in Fair condition is not removed, then Repair friable ACM.
Action 6	ACM Repair Repair friable ACM in Fair condition which is not likely to be damaged again or disturbed by normal use of the area or room. Pinchin recommends proactive removal if friable ACM is likely to be damaged or disturbed during normal use of the area or room
Action 7	Asbestos Management Program with Routine Surveillance Implement an Asbestos Management Program, including routine surveillance of ACM. Reassess materials regularly (typically once per year).

Master Template: Methodology Annex A to Appendix I Evaluation Criteria, HAZ, January 10, 2020

APPENDIX III

Location Summary Report

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

LOCATIONS LIST

PINCHIN
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Client:City of Winnipeg Water and Waste Dept
Building Name: Archibald Lift Station
Survey Date: 2008-03-28

Site: Various Locations, Winnipeg, MB

Last Re-Assessment: 2021-07-13

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Lift Station	0	Main	A	
2	Exterior of Building	0	NA	A	BUR are suspect to contain asbestos. Roof sections needs to be tested prior to any renovation or demolition activities. Masonry block walls above and behind bricks may contain asbestos containing vermiculite. Grout (masonry mortar/cement/plaster) on clay tiles is presumed asbestos containing.

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HAZARDOUS MATERIALS INVENTORY SYSTEM

LOCATIONS LIST

PINCHIN
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Client:City of Winnipeg Water and Waste Dept
Building Name: Armstrong Diversion Chamber
Survey Date: 2010-09-15

Site: 195 Armstrong @ Main St, Winnipeg, MB

Last Re-Assessment: 2021-07-13

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Control Room	110	Main	A	
2	Comminuter Chamber Access Room	110	Basement Level 2	A	
3	Pump Room	110	Basement Level 1	A	
4	Exterior of Building	0	NA	A	No visual inspection or sampling was conducted at the roof. Roof sections needs to be tested prior to any renovation or demolition activities.

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

LOCATIONS LIST

PINCHIN
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Client:City of Winnipeg Water and Waste Dept
Building Name: Ash Flood Station
Survey Date: 2009-09-17

Site: Various Locations, Winnipeg, MB

Last Re-Assessment: 2021-07-13

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Control/Motor Room	0	Main	A	Grout (masonry mortar/cement/plaster) on clay tile is presumed asbestos containing.
2	Pump Room	0	Basement Level 1	A	
3	Exterior of Building	0	NA	A	No visual inspection or sampling was conducted at the roof. Roof sections needs to be tested prior to any renovation or demolition activities. Grout (masonry mortar/cement/plaster) on clay tile is presumed asbestos containing.

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HAZARDOUS MATERIALS INVENTORY SYSTEM

LOCATIONS LIST

PINCHIN
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Client:City of Winnipeg Water and Waste Dept **Site: Various Locations, , MB**
Building Name: Ash Lift Station
Survey Date: 2009-09-17 **Last Re-Assessment: 2021-07-13**

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Control Room	0	Main	A	Roof sections needs to be tested prior to any renovation or demolition activities.
2	Valve Room	0	Basement Level 3	A	
3	Motor Room	0	Basement Level 2	A	
4	Pump Room	0	Basement Level 1	A	
5	Exterior of Building	0	1	A	No visual inspection or sampling was conducted at the roof. Roof sections needs to be tested prior to any renovation or demolition activities. Grout (masonry mortar/cement/plaster) on formed block walls (looks like brick) is presumed asbestos containing.

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Client:City of Winnipeg Water and Waste Dept
Building Name: Aubrey Flood Station
Survey Date: 2009-09-10

Site: Various Locations, Winnipeg, MB

Last Re-Assessment: 2021-07-13

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Motor/Control Room	0	Main	A	No visual inspection or sampling was conducted at the exterior and roof. Exterior and roof sections needs to be tested prior to any renovation or demolition activities.
2	Pump Room	0	Basement Level 1	A	
3	Exterior of Building	0	NA	A	No visual inspection or sampling was conducted at the roof. Roof sections needs to be tested prior to any renovation or demolition activities. Grout (masonry mortar/cement/plaster) on clay tiles is presumed asbestos containing.

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Client:City of Winnipeg Water and Waste Dept
Building Name: Baltimore Lift Station
Survey Date: 2009-09-09

Site: Various Locations, Winnipeg, MB

Last Re-Assessment: 2021-07-13

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Control Room	0	Main	A	Roof sections needs to be tested prior to any renovation or demolition activities. Masonry block walls suspect to contain asbestos containing vermiculite. Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.
2	Motor Room	0	Basement Level 3	A	
3	Pump Room	0	Basement Level 1	A	
4	Exterior of Building	0	1	A	Roof sections needs to be tested prior to any renovation or demolition activities. Masonry block walls suspect to contain asbestos containing vermiculite. Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.

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HAZARDOUS MATERIALS INVENTORY SYSTEM

LOCATIONS LIST

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Client:City of Winnipeg Water and Waste Dept **Site: 20 Ship St. (Bannatyne), Winnipeg, MB**
Building Name: Bannatyne Flood Pumping Station
Survey Date: 2010-09-15 **Last Re-Assessment: 2021-07-13**

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Control/Motor Room	273	Main	A	Roof sections needs to be tested prior to any renovation or demolition activities.
2	Pump Room	273	Basement Level 1	A	
3	Exterior of Building	0	NA	A	Roof sections needs to be tested prior to any renovation or demolition activities.

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Client:City of Winnipeg Water and Waste Dept **Site: 2 Southbone, Winnipeg, MB**
Building Name: Barker Standby Generator Building
Survey Date: 2010-09-17 **Last Re-Assessment: 2021-07-13**

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Generator Room	97	Main	A	069 Silver Mastic Sampled in Perimeter Lift Station: 0.1 - 1% CH. Magblock Sampled and found to be non-asbestos in other Lift Stations
2	Exterior of Building	0	NA	A	Concrete block walls suspect to contain vermiculite (test first before doing renovation activities) No visual inspection or sampling was conducted at the roof. Roof sections needs to be tested prior to any renovation or demolition activities. Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.

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Client:City of Winnipeg Water and Waste Dept **Site: Various Locations, Winnipeg, MB**
Building Name: Burrows Lift Station
Survey Date: 2008-03-26 **Last Re-Assessment: 2021-07-13**

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Lift Station	0	Main	A	Lift station under renovation during 2017 update. Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.
2	Exterior of Building	0	NA	A	Preformed blocks on walls confirmed to contain vermiculite Roof sections needs to be tested prior to any renovation or demolition activities. Grout (masonry mortar/cement/plaster) on Preformed block walls Non-asbestos 2 samples - July 2020

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LOCATIONS LIST

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Client:City of Winnipeg Water and Waste Dept
Building Name: Clarence Lift Station
Survey Date: 2010-05-03

Site: Various Locations, Winnipeg, MB

Last Re-Assessment: 2021-07-13

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Control Room	0	Main Floor	A	Masonry block walls under the bricks suspect to contain asbestos containing vermiculite. Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.
2	Pump/Motor Room	0	Basement Level 1	A	
3	Exterior of Building	0	NA	A	Roof sections needs to be tested prior to any renovation or demolition activities. Masonry block walls under the bricks suspect to contain asbestos containing vermiculite. Grout (masonry mortar/cement/plaster) on clay tiles is presumed asbestos containing.

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Client:City of Winnipeg Water and Waste Dept
Building Name: Clifton Lift Station
Survey Date: 2009-09-10

Site: Various Locations, Winnipeg, MB

Last Re-Assessment: 2021-07-13

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Control Room	0	Main	A	Roof sections needs to be tested prior to any renovation or demolition activities. Masonry block walls under the bricks suspect to contain asbestos containing vermiculite. Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.
2	Comminuter Chamber Access Room	0	Basement Level 3	A	
3	Motor Room	0	Basement Level 2	A	
4	Pump Room	0	Basement Level 1	A	
5	Exterior of Building	0	NA	A	Roof Sections needs to be tested prior to any renovation or demolition activities. Masonry block walls under the bricks suspect to contain asbestos containing vermiculite. Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.

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Client:City of Winnipeg Water and Waste Dept **Site: 905 Cockburn St., Winnipeg, MB**
Building Name: Cockburn Combined Lift/Flood Station
Survey Date: 2009-09-09 **Last Re-Assessment: 2021-07-13**

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Control/Flood Motor Room	0	Main	A	No visual inspection or sampling was conducted at the exterior and roof. Exterior and roof sections needs to be tested prior to any renovation or demolition activities.
2	Comminuter Chamber Access Room	0	Basement Level 3	A	
3	Pump Room	0	Basement Level 2	A	
4	Sanitary Pump Room	0	Basement Level 1	A	
5	Sanitary Motor Room	0	Basement Level 3	A	
6	Exterior of Building	0	NA	A	

Client:City of Winnipeg Water and Waste Dept

Site: Colony St between Broadway & Granite, Winnipeg, MB

Building Name: Colony Diversion Chamber

Survey Date: 2010-09-16

Last Re-Assessment: 2021-07-13

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Control Room	42	Main	A	Roof sections needs to be tested prior to any renovation or demolition activities.
2	Comminuter Chamber Access Room	84	Basement Level 2	A	
3	Pump Room	0	Basement Level 1	A	
4	Exterior of Building	0	NA	A	Plaster is formed and painted to make it look like clay tile bricks. Roof sections needs to be tested prior to any renovation or demolition activities.

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Client:City of Winnipeg Water and Waste Dept
Building Name: Colony Flood Pumping Station
Survey Date: 2010-09-16

Site: Colony and Granite, Winnipeg, MB

Last Re-Assessment: 2021-07-13

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Motor/Control Room	483	Main	A	No visual inspection or sampling was conducted at the exterior and roof. Exterior and roof sections needs to be tested prior to any renovation or demolition activities.
2	Pump Room	483	Basement Level 1	A	
3	Exterior of Building	0	NA	A	Plaster is formed and painted to look like bricks. No visual inspection or sampling was conducted at the roof. Roof sections needs to be tested prior to any renovation or demolition activities.

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Client:City of Winnipeg Water and Waste Dept
Building Name: Conway Lift Station
Survey Date: 2010-05-06

Site: 2206 Portage Ave. @ Conway St., Winnipeg, MB

Last Re-Assessment: 2021-07-13

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Control Room	0	Main Floor	A	Roof sections needs to be tested prior to any renovation or demolition activities.
2	Comminuter Room	0	Basement Level 3	A	
3	Comminuter Dry Well	0	Basement Level 2	A	
4	Motor Room	0	Basement Level 2	A	
5	Pump Room	0	Basement Level 1	A	
6	Exterior of Building	0	NA	A	Plaster is formed and painted to make it look like bricks. Roof sections needs to be tested prior to any renovation or demolition activities.

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Client:City of Winnipeg Water and Waste Dept
Building Name: Cornish Lift Station
Survey Date: 2009-09-10

Site: Various Locations, Winnipeg, MB

Last Re-Assessment: 2021-07-13

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Control Room	0	Main	A	No visual inspection or sampling was conducted at the exterior and roof. Exterior and roof sections needs to be tested prior to any renovation or demolition activities.
2	Valve Room	0	Basement Level 1	A	
3	Pump Room	0	Basement Level 1	A	
4	Exterior of Building	0	NA	A	Roof Sections needs to be tested prior to any renovation or demolition activities. Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos.

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Client:City of Winnipeg Water and Waste Dept
Site: 4 Mazenod Road (Mazenod & Dugald), Winnipeg, MB
Building Name: Dugald Road Lift Station
Survey Date: 2010-09-16
Last Re-Assessment: 2021-07-13

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Main	0	Main	A	Site was not inspected, not suspect to have asbestos.
2	Exterior of Building	0	NA	A	

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Client:City of Winnipeg Water and Waste Dept **Site: Ferry Road and Assiniboine Ave., Winnipeg, MB**
Building Name: Ferry Road Lift Station
Survey Date: 2010-05-06 **Last Re-Assessment: 2021-07-13**

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Control Room	0	Main Floor	A	No visual inspection or sampling was conducted at the exterior and roof. Exterior and roof sections needs to be tested prior to any renovation or demolition activities.
2	Comminuter Room	0	Basement Level 3	A	
3	Comminuter Dry Well	0	Basement Level 2	A	
4	Motor Room	0	Basement Level 2	A	
5	Pump Room	0	Basement Level 1	A	
6	Exterior of Building	0	NA	A	No visual inspection or sampling was conducted at the roof. Roof sections needs to be tested prior to any renovation or demolition activities.

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LOCATIONS LIST

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Client:City of Winnipeg Water and Waste Dept
Building Name: Heritage Lift Station
Survey Date: 2008-03-26

Site: Various Locations, Winnipeg, MB

Last Re-Assessment: 2021-07-13

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Lift Station	0	Main	A	
2	Wet Well	0	Main	A	
3	Drywell - Valve Room	0	Basement Level 3	A	
4	Drywell - Pump Room	0	basement Level 1	A	
5	Exterior of Building	0	NA	A	No visual inspection or sampling was conducted at the roof. Roof sections needs to be tested prior to any renovation or demolition activities.

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Client:City of Winnipeg Water and Waste Dept
Building Name: Jefferson Diversion Station
Survey Date:

Site: Various Locations, Winnipeg, MB

Last Re-Assessment: 2021-07-13

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Main	0	Main	A	Refer to data in Building # 124 No visual inspection or sampling was conducted at the exterior and roof. Exterior and roof sections needs to be tested prior to any renovation or demolition activities.
2	Exterior of Building	0	NA	A	No visual inspection or sampling was conducted at the roof. Roof sections needs to be tested prior to any renovation or demolition activities. Grout (masonry mortar/cement/plaster) on clay tiles is presumed asbestos containing.

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HAZARDOUS MATERIALS INVENTORY SYSTEM

LOCATIONS LIST

PINCHIN
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Client:City of Winnipeg Water and Waste Dept
Building Name: Keewatin Underpass Lift Station
Survey Date: 2008-03-26

Site: Various Locations, Winnipeg, MB

Last Re-Assessment: 2021-07-13

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Lift Station	0	Main	A	No visual inspection or sampling was conducted at the exterior and roof. Exterior and roof sections needs to be tested prior to any renovation or demolition activities.
2	Exterior of Building	0	NA	A	No visual inspection or sampling was conducted at the roof. Roof sections needs to be tested prior to any renovation or demolition activities. Masonry block walls above and behind bricks may contain asbestos containing vermiculite. Grout (masonry mortar/cement/plaster) on cinder block wall confirmed non-asbestos July 2020 275519

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PINCHIN
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Client:City of Winnipeg Water and Waste Dept
Building Name: King Edward Lift Station
Survey Date: 2008-03-26

Site: Various Locations, Winnipeg, MB

Last Re-Assessment: 2021-07-13

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Lift Station	0	Main	A	Concrete block walls may contain vermiculite insulation, Roof Sections needs to be tested prior to any renovation or demolition activities. Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos.
2	Exterior of Building	0	NA	A	No visual inspection or sampling was conducted at the roof. Roof sections needs to be tested prior to any renovation or demolition activities. Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos.

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PINCHIN
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Client:City of Winnipeg Water and Waste Dept
Building Name: Manitoba Lift Station
Survey Date: 2008-03-26

Site: Various Locations, Winnipeg, MB

Last Re-Assessment: 2021-07-13

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Lift Station	0	Main	A	Verimicultes were found inside the damaged wall preformed block that was confirmed to be asbestos containing by the COWWWD. Remaining 3 old walls are assumed to have the same vermiculites inside the preformed block. Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos.
2	Exterior of Building	0	NA	A	Vermiculite confirmed present by the COWWWD. 1 Wall was replaced - Remaining 3 walls suspect to contain Roof is wood, not suspect Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.

HMIS
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PINCHIN
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Client:City of Winnipeg Water and Waste Dept
Building Name: Mayfair Combined Station
Survey Date: 2010-09-16

Site: Various Locations, Winnipeg, MB

Last Re-Assessment: 2021-07-13

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Main	0	Main	A	Site was not inspected, not suspect to have asbestos.
2	Exterior of Building	0	NA	A	No visual inspection or sampling was conducted at the roof. Roof sections needs to be tested prior to any renovation or demolition activities. Grout (masonry mortar/cement/plaster) on clay tiles is presumed asbestos containing.

HMIS
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Client:City of Winnipeg Water and Waste Dept
Building Name: Pulberry Lift Station
Survey Date: 2008-03-25

Site: Various Locations, Winnipeg, MB

Last Re-Assessment: 2021-07-13

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Lift Station	0	Main	A	
2	Exterior of Building	0	NA	A	Roof sections needs to be tested prior to any renovation or demolition activities. Grout (masonry mortar/cement/plaster) on clay tiles is presumed asbestos containing. S0002 completed 3 samples, S0001 1 sample only

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HAZARDOUS MATERIALS INVENTORY SYSTEM

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PINCHIN
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Client:City of Winnipeg Water and Waste Dept
Building Name: St. Charles Lift Station
Survey Date: 2008-03-26

Site: Various Locations, Winnipeg, MB

Last Re-Assessment: 2021-07-13

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Lift Station	150	Main	A	
2	Exterior of Building	0	NA	A	No visual inspection or sampling was conducted at the roof. Roof sections needs to be tested prior to any renovation or demolition activities. S0001 completed 3 samples

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Client:City of Winnipeg Water and Waste Dept
Building Name: Syndicate Lift Station
Survey Date: 2009-09-11

Site: Various Locations, Winnipeg, MB

Last Re-Assessment: 2021-07-13

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Control Room	0	Main	A	Duct tape on joints No visual inspection or sampling was conducted at the exterior and roof. Exterior and roof sections needs to be tested prior to any renovation or demolition activities.
2	Comminuter Chamber Access Room	0	Basement Level 3	A	Duct tape on joints
3	Cham Room	0	Basement Level 2	A	
4	Pump Room	0	Basement Level 1	A	Duct tape on end
5	Exterior of Building	0	NA	A	Roof sections needs to be tested prior to any renovation or demolition activities. Grout (masonry mortar/cement/plaster) on clay tiles is presumed asbestos containing.

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

LOCATIONS LIST

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Client:City of Winnipeg Water and Waste Dept
Building Name: Tuxedo Lift Station
Survey Date: 2008-03-26

Site: Various Locations, Winnipeg, MB

Last Re-Assessment: 2021-07-13

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Lift Station	600	Main	A	Masonry block walls suspect to contain asbestos containing vermiculite. Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.
2	Exterior of Building	0	NA	A	No visual inspection or sampling was conducted at the roof. Roof sections needs to be tested prior to any renovation or demolition activities. Masonry block walls suspect to contain asbestos containing vermiculite. S0001 completed 3. Grout (masonry mortar/cement/plaster) on clay tiles is presumed asbestos containing.

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

LOCATIONS LIST

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Client:City of Winnipeg Water and Waste Dept
Building Name: Metro Route 90 Lift Station
Survey Date: 2008-03-26

Site: Various Locations, Winnipeg, MB

Last Re-Assessment: 2021-07-13

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Lift Station	0	Main	A	Have black mastic in genset duct tested first before doing any reno works. As per client on July 12 2017 asbestos containing fitting on genset exhaust and mastic had been abated prior to installation of new genset. Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.
2	Exterior of Building	0	NA	A	Cinder blocks suspect to contain vermiculites (test first before doing any renovation activities) No visual inspection or sampling was conducted at the roof. Roof sections needs to be tested prior to any renovation or demolition activities. Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

LOCATIONS LIST

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Client:City of Winnipeg Water and Waste Dept **Site: 1550 Wolseley Ave., @ Tylehurst, Winnipeg, MB**
Building Name: Tylehurst Lift Station
Survey Date: 2010-05-04 **Last Re-Assessment: 2021-07-13**

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Control Room	0	Main Floor	A	No visual inspection or sampling was conducted at the exterior and roof. Exterior and roof sections needs to be tested prior to any renovation or demolition activities.
2	Comminuter Room Drywell	0	Basement Level 3	A	
3	Cham Room	0	Basement Level 2	A	
4	Motor Room	0	Basement Level 2	A	
5	Pump Room	0	Basement Level 1	A	
6	Exterior of Building	0	NA	A	Roof sections needs to be tested prior to any renovation or demolition activities.

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

LOCATIONS LIST

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Client:City of Winnipeg Water and Waste Dept **Site: Various Locations, Winnipeg, MB**
Building Name: Westwood Lift Stations
Survey Date: 2008-03-28 **Last Re-Assessment: 2021-07-13**

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Lift Station	0	Main	A	No visual inspection or sampling was conducted at the exterior and roof. Exterior and roof sections needs to be tested prior to any renovation or demolition activities.
2	Wet Well	0	Main	A	No visual inspection or sampling was conducted at the exterior and roof. Exterior and roof sections needs to be tested prior to any renovation or demolition activities.
3	Lift Station Pump Room	0	Basement Level 1	A	
4	Motor Room	0	Basement Level 3	A	
5	Exterior of Building	0	NA	A	Built - 2001 Roof Not suspect to contain asbestos Grout (masonry mortar/cement/plaster) on clay tiles confirmed non-asbestos July 2020 275519. Caulking confirmed asbestos-containing July 2020 - 275519

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

LOCATIONS LIST

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Client:City of Winnipeg Water and Waste Dept **Site: Various Locations, Winnipeg, MB**
Building Name: Wexford Lift Station
Survey Date: 2010-05-04 **Last Re-Assessment: 2021-07-13**

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Control Room	0	Main Floor	A	Masonry block walls suspect to contain asbestos containing vermiculite. Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.
2	Comminuter Dry Well	0	Basement Level 1	A	
3	Pump/Motor Room	0	Basement Level 1	A	
4	Exterior of Building	0	NA	A	No visual inspection or sampling was conducted at the roof. Roof sections needs to be tested prior to any renovation or demolition activities. Masonry block walls suspect to contain asbestos containing vermiculite. Grout (masonry mortar/cement/plaster) on clay tile is presumed asbestos containing.

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

LOCATIONS LIST

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Client:City of Winnipeg Water and Waste Dept **Site: Various Locations, Winnipeg, MB**
Building Name: Willow Lift Station
Survey Date: 2010-05-03 **Last Re-Assessment: 2021-07-13**

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Control Room	0	Main Floor	A	No visual inspection or sampling was conducted at the exterior and roof. Exterior and roof sections needs to be tested prior to any renovation or demolition activities.
2	Motor Room	0	Basement Level 2	A	
3	Pump Room	0	Basement Level 1	A	
4	Exterior of Building	0	NA	A	No visual inspection or sampling was conducted at the roof. Roof sections needs to be tested prior to any renovation or demolition activities.

APPENDIX IV

Asbestos Material Summary Report / Sample Log

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

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Client:City of Winnipeg Water and Waste Dept **Site: Various Locations, Winnipeg, MB** **Building Name: Archibald Lift Station** **Surveyor: JYC** **Survey Date: 2008-03-28**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	V9500	CEILING | PLASTER |	2	A	0	100	0	0	Presumed Asbestos	Yes
Asbestos	V9500	WALL | CAULKING |	2	A	0	0	0	100	Presumed Asbestos	Yes
Asbestos	V9500	WALL | MORTAR |	2	A	0	0	0	50	Presumed Asbestos	Yes
Asbestos	V9500	WALL | VERMICULITE/CONCRETE BLOCK WALLS	2	A	0	0	0	33	Presumed Asbestos	Yes

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

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Client:City of Winnipeg Water and Waste Dept **Site: 195 Armstrong @ Main St, Winnipeg, MB** **Building Name: Armstrong Diversion Chamber** **Surveyor: LSC** **Survey Date: 2010-09-15**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	V0000	WALL | MORTAR	4	A	0	0	0	100	Non Asbestos	No

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

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Client:City of Winnipeg Water and Waste Dept **Site: Various Locations, Winnipeg, MB** **Building Name: Ash Flood Station** **Surveyor: LSC** **Survey Date: 2009-09-17**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	S0001	WALL | PLASTER | STUCCO PLASTER, EXTERIOR WALL, ASH FLOOD STATION, AUG. 7, 2015 SAMPLE B-C (9/7/2016)	3	A	0	120	0	0	None Detected	No
Asbestos	V9000	CEILING | CEMENT PRODUCT |	1,3	A	0	1429	0	100	Confirmed Asbestos	Yes
Asbestos	V9000	OTHER | CEMENT PRODUCT	1	A	0	92	0	0	Confirmed Asbestos	Yes
Asbestos	V9500	WALL | MORTAR	1,3	A	0	0	0	100	Presumed Asbestos	Yes

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

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Client:City of Winnipeg Water and Waste Dept **Site: Various Locations, , MB** **Building Name: Ash Lift Station** **Surveyor: LSC** **Survey Date: 2009-09-17**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	S0001	WALL | PLASTER | PLASTER ON CONCRETE BASE OF THE EXTERIOR WALL, ASH LIFT STATION, BLDG 26, S0041A-C (9/7/2016) 1617173_PLM	5	A	0	0	0	100	None Detected	No
Asbestos	S0002	DUCT | MASTIC, SILVER | SILVER MASTIC, DUCT, CONTROL RM LOC 1, VALVE RM LOC 2, MOTOR RM LOC 3, ASH LIFT STATION (HOMOGENOUS, GREY, CONSOLIDATED MATERIAL)	1,2,3	A	0	0	0	100	None Detected	No
Asbestos	V9000	DUCT | TAPE	2	A	0	1	0	0	Confirmed Asbestos	Yes
Asbestos	V9500	WALL | MORTAR	5	A	0	0	0	100	Presumed Asbestos	Yes

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

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Client:City of Winnipeg Water and Waste Dept **Site: Various Locations, Winnipeg, MB** **Building Name: Aubrey Flood Station** **Surveyor: LSC** **Survey Date: 2009-09-10**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	S0001	WALL | CAULKING | CAULKING, VENT, EXTERIOR WALL, AUBREY FLOOD STN. (HOMOGENOUS, BEIGE, SOFT CEMENTITIOUS MAT'L.) (B191887-6/21/2018)	3	A	0	0	0	100	Chrysotile	Yes
Asbestos	V9500	WALL | MORTAR	1,3	A	0	0	0	100	Presumed Asbestos	Yes

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

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Client:City of Winnipeg Water and Waste Dept **Site: Various Locations, Winnipeg, MB** **Building Name: Baltimore Lift Station** **Surveyor: LSC** **Survey Date: 2009-09-09**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	S0001	WALL | PLASTER | PLASTER ON CONCRETE BASE OF THE EXTERIOR WALL, BALTIMORE LIFT STATION, BLDG 30, S0044A-C (9/7/2016) 1617173_PLM	4	A	0	0	0	100	None Detected	No
Asbestos	S0002	DUCT | MASTIC, SILVER | SILVER MASTIC, DUCT, CONTROL RM.LOC.1, & MOTOR RM.LOC.2, BALTIMORE LIFT STN. (HOMOGENOUS GREY CONSOLIDATED MAT'L.) (B191885-6/14/2018)	1,2	A	0	0	0	100	None Detected	No
Asbestos	V9500	WALL | MORTAR |	1,4	A	0	0	0	100	Presumed Asbestos	Yes
Asbestos	V9500	WALL | VERMICULITE/CONCRETE BLOCK WALLS	1,4	A	0	0	0	50	Presumed Asbestos	Yes
Asbestos	V0000	CEILING | ALUMINUM	4	A	0	0	0	100	Non Asbestos	No

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

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Client:City of Winnipeg Water and Waste Dept **Site: 20 Ship St. (Bannatyne), Winnipeg, MB** **Building Name: Bannatyne Flood Pumping Station** **Surveyor: LSC** **Survey Date: 2010-09-15**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	S0001	WALL | PLASTER | STUCCO PLASTER, BASE OF EXTERIOR B215798	3	A	0	90	0	0	None Detected	No
Asbestos	V9500	WALL | MORTAR	3	A	0	0	0	100	Presumed Asbestos	Yes

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

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Client:City of Winnipeg Water and Waste Dept **Site: 2 Southbone, Winnipeg, MB** **Building Name: Barker Standby Generator Building** **Surveyor: LSC** **Survey Date: 2010-09-17**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	S0002	MECHANICAL EQUIPMENT | PARGING CEMENT | PARGING CEMENT, FITTING, GENERATOR EXHAUST	1	A	2	0	0	0	None Detected	No
Asbestos	S0003	MECHANICAL EQUIPMENT | MAGNESIA BLOCK | MAGNESIA BLOCK, STRAIGHT, GENERATOR EXHAUST	1	A	7	0	0	0	None Detected	No
Asbestos	S0005	DUCT | TEXTILE | TEXTILE, GENERATOR RADIATOR EXHAUST DUCT CONNECTOR	1	A	8	0	0	0	None Detected	No
Asbestos	S0006	WALL | PLASTER | PLASTER ON CONCRETE, EXTERIOR WALL FOUNDATION, BARKER STAND-BY GENERATOR BLDG (SAMPLE NO. 0010-AUGUST 7, 2015) 1517151_PLM S0010B-C (9/7/2016) 1617173_PLM	2	A	0	0	0	100	None Detected	No
Asbestos	V9000	PIPING | MASTIC, SILVER	1	A	0	0	0	100	Confirmed Asbestos	Yes
Asbestos	V9500	WALL | MORTAR |	2	A	0	0	0	100	Presumed Asbestos	Yes
Asbestos	V9500	WALL | VERMICULITE/CONCRETE BLOCK WALLS	1,2	A	0	0	0	67	Presumed Asbestos	Yes
Asbestos	V0000	PIPING | MAGNESIA BLOCK |	1	A	12	0	0	0	Non Asbestos	No
Asbestos	V0000	PIPING | PARGING CEMENT	1	A	0	0	2	0	Non Asbestos	No

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

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Client:City of Winnipeg Water and Waste Dept **Site: Various Locations, Winnipeg, MB** **Building Name: Burrows Lift Station** **Surveyor: RMF** **Survey Date: 2008-03-26**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	S0002	WALL | PLASTER | PLASTER ON CONCRETE, EXTERIOR WALL FOUNDATION, BURROWS LIFT STATION (SAMPLE NO. 0011-JULY 30, 2015) 1517151_PLM S0011B-C (9/7/2016) 1617173_PLM	2	A	0	0	0	100	None Detected	No
Asbestos	S0005	PIPING | PARGING CEMENT | PARGING CEMENT / GENERATOR EXHAUST (SILVER PAINT/TAR IS THE ASBESTOS CONTAINING)	1	A	0	0	1	0	None Detected	No
Asbestos	V9000	WALL | VERMICULITE/CONCRETE BLOCK WALLS	2	A	0	100	0	0	Confirmed Asbestos	Yes
Asbestos	V9500	WALL | MORTAR |	1	A	0	0	0	100	Presumed Asbestos	Yes
Asbestos	V9500	WALL | VERMICULITE/CONCRETE BLOCK WALLS	1	A	0	0	0	50	Presumed Asbestos	Yes
Asbestos	V0000	PIPING | MAGNESIA BLOCK |	1	A	3	0	0	0	Non Asbestos	No
Asbestos	V0000	WALL | MORTAR |	2	A	0	0	0	100	Non Asbestos	No
Asbestos	V0000	WALL | PREFORMED BLOCK	2	A	0	0	0	0	Non Asbestos	No

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

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Client:City of Winnipeg Water and Waste Dept **Site: Various Locations, Winnipeg, MB** **Building Name: Clarence Lift Station** **Surveyor: LSC** **Survey Date: 2010-05-03**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	S0001	WALL | PLASTER | PLASTER ON CONCRETE, EXTERIOR WALL FOUNDATION, CLARENCE LIFT STATION(SAMPLE NO. 0012-JULY 30, 2015) 1517151_PLM S0012B-C (9/7/2016) 1617173_PLM	3	A	0	66	0	0	None Detected	No
Asbestos	S0002	PIPING | MASTIC, RED | RED MASTIC UNDER BLUE PAINT, DUCT, CONTROL RM LOC 1, CLARENCE LIFT STN. (HOMOGENOUS, RED, STICKY, MASTIC MATERIAL)	1	A	0	0	0	100	None Detected	No
Asbestos	V9000	DUCT | CEMENT PRODUCT	1,2	A	40	0	3	0	Confirmed Asbestos	Yes
Asbestos	V9500	WALL | MORTAR |	1,3	A	0	0	0	100	Presumed Asbestos	Yes
Asbestos	V9500	WALL | VERMICULITE/CONCRETE BLOCK WALLS	1,3	A	0	0	0	50	Presumed Asbestos	Yes

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

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Client:City of Winnipeg Water and Waste Dept **Site: Various Locations, Winnipeg, MB** **Building Name: Clifton Lift Station** **Surveyor: LSC** **Survey Date: 2009-09-10**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	S0001	DUCT | MASTIC, SILVER | SILVER MASTIC, DUCT, COMMINUTER CHAMBER ACCESS RM LOC 2, CLIFTON LIFT STATION (HOMOGENOUS, GREY, CONSOLIDATED MATERIAL)	2	A	0	0	0	100	None Detected	No
Asbestos	V9500	WALL | MORTAR |	1,5	A	0	0	0	100	Presumed Asbestos	Yes
Asbestos	V9500	WALL | VERMICULITE/CONCRETE BLOCK WALLS	1,5	A	0	0	0	50	Presumed Asbestos	Yes

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

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Client:City of Winnipeg Water and Waste Dept **Site: 905 Cockburn St., Winnipeg, MB** **Building Name: Cockburn Combined Lift/Flood Station** **Surveyor: LSC** **Survey Date: 2009-09-09**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	S0001	WALL | PLASTER | STUCCO PLASTER, BASE OF EXTERIOR WALL	6	A	0	236	0	0	None Detected	No
Asbestos	V9500	WALL | MORTAR	6	A	0	0	0	100	Presumed Asbestos	Yes

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

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Client:City of Winnipeg Water and Waste Dept **Site: Colony St between Broadway & Granite, Winnipeg, MB** **Building Name: Colony Diversion Chamber** **Surveyor: LSC** **Survey Date: 2010-09-16**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	S0001	WALL | PLASTER | PLASTER, EXTERIOR WALL, B215797	4	A	0	260	0	0	None Detected	No
Asbestos	V0000	WALL | MORTAR	4	A	0	0	0	100	Non Asbestos	No

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

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Client:City of Winnipeg Water and Waste Dept **Site: Colony and Granite, Winnipeg, MB** **Building Name: Colony Flood Pumping Station** **Surveyor: LSC** **Survey Date: 2010-09-16**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	V9500	WALL | MORTAR |	3	A	0	0	0	100	Presumed Asbestos	Yes
Asbestos	V9500	WALL | PLASTER	3	A	0	900	0	0	Presumed Asbestos	Yes

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

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Client:City of Winnipeg Water and Waste Dept **Site: 2206 Portage Ave. @ Conway St., Winnipeg, MB** **Building Name: Conway Lift Station** **Surveyor: LSC** **Survey Date: 2010-05-06**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	V9500	WALL | MORTAR |	6	A	0	0	0	100	Presumed Asbestos	Yes
Asbestos	V9500	WALL | PLASTER	6	A	0	190	0	0	Presumed Asbestos	Yes

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

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Client:City of Winnipeg Water and Waste Dept **Site: Various Locations, Winnipeg, MB** **Building Name: Cornish Lift Station** **Surveyor: LSC** **Survey Date: 2009-09-10**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	S0001	WALL | PLASTER | PLASTER ON CONCRETE BASE OF THE EXTERIOR WALL, CORNISH LIFT STATION, BLDG 47, S0045A-C (9/7/2016) 1617173_PLM	4	A	0	0	0	100	None Detected	No
Asbestos	S0002	DUCT | MASTIC, RED | RED MASTIC UNDER BLUE PAINT, DUCT, CONTROL RM LOC 1, CORNISH LIFT STATION (HOMOGENOUS, RED, MASTIC MATERIAL)	1	A	0	0	0	100	Chrysotile	Yes
Asbestos	V9500	WALL | MORTAR	4	A	0	0	0	100	Presumed Asbestos	Yes

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

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Client:City of Winnipeg Water and Waste Dept **Site: 4 Mazenod Road (Mazenod & Dugald), Winnipeg, MB** **Building Name: Dugald Road Lift Station** **Surveyor:** **Survey Date: 2010-09-16**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	V0000	WALL | MORTAR	2	A	0	0	0	100	Non Asbestos	No

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

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Client:City of Winnipeg Water and Waste Dept **Site: Ferry Road and Assiniboine Ave., Winnipeg, MB** **Building Name: Ferry Road Lift Station** **Surveyor: LSC** **Survey Date: 2010-05-06**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	V9500	WALL | MORTAR	6	A	0	0	0	100	Presumed Asbestos	Yes

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

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Client:City of Winnipeg Water and Waste Dept **Site: Various Locations, Winnipeg, MB** **Building Name: Heritage Lift Station** **Surveyor: JYC** **Survey Date: 2008-03-26**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	S0001	WALL | TAR | BLACK TAR, INDIE EXTERIOR WALL ALUMINUM CLADDING, HERITAGE LIFT STATION, S0002 8/12/2015	5	A	0	0	0	100	None Detected	No
Asbestos	S0002	WALL | PLASTER | PLASTER ON CONCRETE, EXTERIOR WALL FOUNDATION, HERITAGE LIFT STATION(SAMPLE NO. 0013A-B-AUGUST 7, 2015) 1517151_PLM S0013B-C (9/7/2016) 1617173_PLM	5	A	0	0	0	100	None Detected	No
Asbestos	V9500	CEILING | CEMENT PRODUCT |	1,2	A	0	421	0	0	Presumed Asbestos	Yes
Asbestos	V9500	DUCT | CEMENT PRODUCT |	1,3,4	A	40	0	0	0	Presumed Asbestos	Yes
Asbestos	V9500	WALL | CEMENT PRODUCT	1,2	A	0	1670	0	0	Presumed Asbestos	Yes

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

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Client:City of Winnipeg Water and Waste Dept **Site: Various Locations, Winnipeg, MB** **Building Name: Jefferson Diversion Station** **Surveyor:** **Survey Date:**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	V0000	WALL | MORTAR	2	A	0	0	0	100	Non Asbestos	No

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

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Client:City of Winnipeg Water and Waste Dept **Site: Various Locations, Winnipeg, MB** **Building Name: Keewatin Underpass Lift Station** **Surveyor: RMF** **Survey Date: 2008-03-26**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	V9500	WALL | VERMICULITE/CONCRETE BLOCK WALLS	2	A	0	0	0	100	Presumed Asbestos	Yes
Asbestos	V0000	WALL | MORTAR	2	A	0	0	0	100	Non Asbestos	No

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

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Client:City of Winnipeg Water and Waste Dept **Site: Various Locations, Winnipeg, MB** **Building Name: King Edward Lift Station** **Surveyor: RMF** **Survey Date: 2008-03-26**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	S0001	DUCT | MASTIC, RED | RED MASTIC, DUCT, KING EDWARD LIFT STATION, S0003 8/12/2015 S0003B-C (9/7/2016)	1	A	0	0	0	100	None Detected	No
Asbestos	V9500	WALL | MORTAR |	1,2	A	0	0	0	100	Presumed Asbestos	Yes
Asbestos	V9500	WALL | VERMICULITE/CONCRETE BLOCK WALLS	1,2	A	0	1040	0	0	Presumed Asbestos	Yes

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

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Client:City of Winnipeg Water and Waste Dept **Site: Various Locations, Winnipeg, MB** **Building Name: Manitoba Lift Station** **Surveyor: RMF** **Survey Date: 2008-03-26**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	V9000	FLOOR | VERMICULITE |	1	A	0	5	0	0	Confirmed Asbestos	Yes
Asbestos	V9000	WALL | VERMICULITE |	1	A	0	0	0	100	Confirmed Asbestos	Yes
Asbestos	V9000	WALL | VERMICULITE/CONCRETE BLOCK WALLS	2	A	0	0	0	50	Confirmed Asbestos	Yes
Asbestos	V9500	WALL | MORTAR	1,2	A	0	0	0	100	Presumed Asbestos	Yes
Asbestos	V0000	PIPING | MAGNESIA BLOCK	1	A	3	0	0	0	Non Asbestos	No

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

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Client:City of Winnipeg Water and Waste Dept **Site: Various Locations, Winnipeg, MB** **Building Name: Mayfair Combined Station** **Surveyor: LSC** **Survey Date: 2010-09-16**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	S0001	WALL | PLASTER | STUCCO PLASTER, EXTERIOR WALL, BASE, B216210 AUG 16, 2019	2	A	0	120	0	0	None Detected	No
Asbestos	V9500	WALL | CAULKING |	2	A	0	0	0	100	Presumed Asbestos	Yes
Asbestos	V9500	WALL | MORTAR	2	A	0	0	0	67	Presumed Asbestos	Yes

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

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Client:City of Winnipeg Water and Waste Dept **Site: Various Locations, Winnipeg, MB** **Building Name: Metro Route 90 Lift Station** **Surveyor: RMF** **Survey Date: 2008-03-26**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	S0001	WALL | PLASTER | PLASTER ON CONCRETE, EXTERIOR WALL FOUNDATION, METRO ROUTE 90 LIFT STATION(SAMPLE NO. 0015-JULY 30, 2015) 1517151_PLM S0015B-C (9/7/2016) 1617173_PLM	2	A	0	0	0	100	None Detected	No
Asbestos	V9000	WALL | VERMICULITE/CONCRETE BLOCK WALLS	2	A	0	0	0	100	Confirmed Asbestos	Yes
Asbestos	V9500	WALL | MORTAR |	1,2	A	0	0	0	100	Presumed Asbestos	Yes
Asbestos	V9500	WALL | VERMICULITE/CONCRETE BLOCK WALLS	1	A	0	0	0	33	Presumed Asbestos	Yes
Asbestos	V0000	PIPING | MAGNESIA BLOCK	1	A	3	0	0	0	Non Asbestos	No

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

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Client:City of Winnipeg Water and Waste Dept **Site: Various Locations, Winnipeg, MB** **Building Name: Pulberry Lift Station** **Surveyor: JYC** **Survey Date: 2008-03-25**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	S0001	WALL | PLASTER | STUCCO PLASTER, EXTERIOR WALL PULBERRY LIFT STATION, S0004 8/12/2015	2	A	0	94	0	0	None Detected	No
Asbestos	S0002	WALL | PLASTER | PLASTER ON CONCRETE, EXTERIOR WALL FOUNDATION, PULBERRY LIFT STATION(SAMPLE NO. 0016-JULY 30, 2015) 1517151_PLM S0016B-C (9/7/2016) 1617173_PLM	2	A	0	0	0	100	None Detected	No
Asbestos	V9500	PIPING | CEMENT PRODUCT |	1	A	12	0	0	0	Presumed Asbestos	Yes
Asbestos	V9500	WALL | MORTAR	2	A	0	0	0	100	Presumed Asbestos	Yes

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

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Client:City of Winnipeg Water and Waste Dept **Site: Various Locations, Winnipeg, MB** **Building Name: St. Charles Lift Station** **Surveyor: JYC** **Survey Date: 2008-03-26**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	S0001	WALL | PLASTER | STUCCO PLASTER, EXTERIOR WALL, ST. CHARLES LIFT STATION, S0005 8/12/2015 S0005B-C (9/7/2016)	2	A	0	390	0	0	None Detected	No
Asbestos	V9500	DUCT | CEMENT PRODUCT	1	A	12	0	0	0	Presumed Asbestos	Yes

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

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Client:City of Winnipeg Water and Waste Dept **Site: Various Locations, Winnipeg, MB** **Building Name: Syndicate Lift Station** **Surveyor: LSC** **Survey Date: 2009-09-11**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	V9500	WALL | MORTAR	5	A	0	0	0	100	Presumed Asbestos	Yes
Asbestos	V0000	DUCT | TAPE	1,2,4	A	0	0	0	0	Non Asbestos	No

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

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Client:City of Winnipeg Water and Waste Dept **Site: Various Locations, Winnipeg, MB** **Building Name: Tuxedo Lift Station** **Surveyor: JYC** **Survey Date: 2008-03-26**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	S0001	WALL | PLASTER | STUCCO PLASTER, EXTERIOR WALL, TUXEDO LIFT STATION S0005B-C (9/7/2016)	2	A	0	140	0	0	None Detected	No
Asbestos	V9000	WALL | CEMENT PRODUCT	1	A	0	200	0	0	Confirmed Asbestos	Yes
Asbestos	V9500	WALL | MORTAR |	1,2	A	0	0	0	100	Presumed Asbestos	Yes
Asbestos	V9500	WALL | VERMICULITE/CONCRETE BLOCK WALLS	1,2	A	0	1000	0	0	Presumed Asbestos	Yes

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

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Client:City of Winnipeg Water and Waste Dept **Site: 1550 Wolseley Ave., @ Tylehurst, Winnipeg, MB** **Building Name: Tylehurst Lift Station** **Surveyor: LSC** **Survey Date: 2010-05-04**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	V0000	WALL | MORTAR	6	A	0	0	0	100	Non Asbestos	No

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

PINCHIN
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Client:City of Winnipeg Water and Waste Dept **Site: Various Locations, Winnipeg, MB** **Building Name: Westwood Lift Stations** **Surveyor: JYC** **Survey Date: 2008-03-28**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	V9000	OTHER | CAULKING	5	A	0	0	0	100	Confirmed Asbestos	Yes
Asbestos	V0000	WALL | MORTAR	5	A	0	0	0	100	Non Asbestos	No

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

PINCHIN
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Client:City of Winnipeg Water and Waste Dept **Site: Various Locations, Winnipeg, MB** **Building Name: Wexford Lift Station** **Surveyor: LSC** **Survey Date: 2010-05-04**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	S0001	WALL | PLASTER | PLASTER ON CONCRETE, EXTERIOR WALL FOUNDATION, WEXFORD LIFT STATION(SAMPLE NO. 0017-AUGUST 7, 2015) 1517151_PLM S0017B-C (9/7/2016) 1617173_PLM	4	A	0	0	0	100	None Detected	No
Asbestos	V9000	DUCT | CEMENT PRODUCT	1	A	6	0	0	0	Confirmed Asbestos	Yes
Asbestos	V9500	WALL | MORTAR |	1,4	A	0	0	0	100	Presumed Asbestos	Yes
Asbestos	V9500	WALL | VERMICULITE/CONCRETE BLOCK WALLS	1,4	A	0	800	0	0	Presumed Asbestos	Yes

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

PINCHIN
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Client:City of Winnipeg Water and Waste Dept **Site: Various Locations, Winnipeg, MB** **Building Name: Willow Lift Station** **Surveyor: LSC** **Survey Date: 2010-05-03**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	S0001	WALL | PLASTER | PLASTER, EXTERIOR WALL BASE, WILLOW LIFT STN., JULY 25, 2017, HOMOGENEOUS BEIGE, HARD, CEMENTITIOUS PLASTER MATERIAL	4	A	0	0	0	100	None Detected	No
Asbestos	S0002	WALL | CAULKING | CAULKING, EXTERIOR WALL, WILLOW LIFT STN., JULY 25, 2017, HOMOGENEOUS GREY CAULKING MATERIAL	4	A	0	0	0	100	Chrysotile	Yes

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

APPENDIX V

HMIS Data Report

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

ALL DATA REPORT

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Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 1 : Archibald Lift Station**
Location: #1 : Lift Station, Phase: A **Floor: Main** **Room #:** **Area (sqft): 0**
Survey Date: 2008-03-28 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI													
Duct	All	Not Insulated													
Floor		Concrete (poured)													
Mechanical Equipment	Motor	Not Insulated													
Piping	All	Not Insulated													
Structure	Beam, Deck	Concrete (poured)													
Wall	Not Found	Masonry													

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 1 : Archibald Lift Station**
Location: #2 : Exterior of Building, Phase: A **Floor: NA** **Room #:** **Area (sqft): 0**
Survey Date: 2008-03-28 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Soffit	Plaster	Exterior	Paint	C	Y		100			SF	V9500	Presumed Asbestos		Presumed Asbestos(PF)
Wall	Exterior	Concrete (poured)	Base		A	Y									
Wall	Exterior	Clay Tile (block)	Surface	N/A	A	Y									
Wall	Exterior	Masonry	ALL	Clay Tile (block)	A	Y									
Wall	Exterior	Mortar	Exterior	Clay Tile (block)	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall	Exterior	Caulking	ALL	NI	B	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	Exterior	Vermiculite/concrete block walls	ALL	Masonry	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)

BUR are suspect to contain asbestos. Roof sections needs to be tested prior to any renovation or demolition activities. Masonry block walls above and behind bricks may contain asbestos containing vermiculite. Grout (masonry mortar/cement/plaster) on clay tiles is presumed asbestos containing.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 73 : Armstrong Diversion Chamber**

Location: #1 : Control Room, Phase: A **Floor: Main** **Room #:** **Area (sqft): 110**

Survey Date: 2010-09-15 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Styrofoam	Surface	Foil Face	B	Y									
Duct	Supply Air	Steel		Paint	B	Y									
Floor		Steel	Surface	Paint	B	Y									
Floor	All	Concrete (poured)	Surface	Paint	B	Y									
Mechanical Equipment	Fan Unit	Steel		Paint	B	Y									
Piping	Not Found	N/A													
Structure	Not Found	N/A													
Wall	All	Clay Tile (block)	Surface	N/A	A	Y									
Wall	All	Styrofoam	Surface	Foil Face	B	Y									

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 73 : Armstrong Diversion Chamber**

Location: #2 : Comminuter Chamber Access Room, Phase: A **Floor: Basement Level 2** **Room #:** **Area (sqft): 110**

Survey Date: 2010-09-15 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Steel		Paint	B	Y									
Ceiling	All	Concrete (poured)	Surface	Styrofoam	B	Y									
Duct	Supply Air	Steel	System	Not Insulated	B	Y									
Floor		Steel	Surface	Paint	B	Y									
Floor	All	Concrete (poured)	Surface	Paint	B	Y									
Mechanical Equipment	Not Found	N/A													
Piping	Domestic Water (Hot and Cold)	Steel	All Pipe	Paint	B	Y									
Piping	Domestic Water (Hot and Cold)	Polyvinyl chloride (PVC)	All Pipe	Paint	B	Y									
Structure	Column	Concrete (poured)	Surface	Styrofoam	B	Y									
Wall	All	Concrete (poured)	Surface	Styrofoam	B	Y									

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 73 : Armstrong Diversion Chamber**

Location: #3 : Pump Room, Phase: A **Floor: Basement Level 1** **Room #:** **Area (sqft): 110**

Survey Date: 2010-09-15 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Concrete (poured)	Surface	N/A	C	Y									
Duct	Supply Air	Steel	System	Not Insulated	C	Y									
Floor	All	Concrete (poured)	Surface	N/A	B	Y									
Mechanical Equipment	Motor Generator	Steel	System	Not Insulated	B	Y									
Piping	Domestic Water (Hot and Cold)	Polyvinyl chloride (PVC)	All Pipe	Not Insulated	B	Y									
Piping	Rain Water Leader	Steel	All Pipe	Not Insulated	B	Y									
Structure	Column	Concrete (poured)	Surface	N/A	C	Y									
Wall	All	Concrete (poured)	Surface	N/A	C	Y									

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 73 : Armstrong Diversion Chamber**

Location: #4 : Exterior of Building, Phase: A **Floor: NA** **Room #:** **Area (sqft): 0**

Survey Date: 2010-09-15 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Structure	Exterior	Concrete (poured)	Base	N/A	A	Y									
Wall	All	Mortar, Sample 0001A-C Lab ID R6725892 Project 289439 July 2021	Exterior	Plaster	A	Y		100			%	V0000	Non-Asbestos		None

No visual inspection or sampling was conducted at the roof. Roof sections needs to be tested prior to any renovation or demolition activities.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 27 : Ash Flood Station**
Location: #1 : Control/Motor Room, Phase: A **Floor: Main** **Room #:** **Area (sqft): 0**
Survey Date: 2009-09-17 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	N/A													
Ceiling	Roof	Cement Product	Surface	None Found	C	Y		1429			SF	V9000	Confirmed Asbestos		Confirmed Asbestos(NF)
Duct	Supply Air	Not Insulated													
Floor	All	Concrete (poured)													
Mechanical Equipment	Motor	Not Insulated		Paint											
Other	Soffit	Cement Product	Surface	Paint	C	Y		92			SF	V9000	Confirmed Asbestos		Confirmed Asbestos(NF)
Piping	All	Not Insulated													
Structure	Beam	Steel													
Wall		Concrete (poured)													
Wall		Wood													
Wall		Clay Tile (block)													
Wall	Interior	Mortar	Surface	Clay Tile (block)	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)

Grout (masonry mortar/cement/plaster) on clay tile is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 27 : Ash Flood Station**
Location: #2 : Pump Room, Phase: A **Floor: Basement Level 1** **Room #:** **Area (sqft): 0**
Survey Date: 2009-09-17 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Styrofoam													
Duct	Supply Air	Not Insulated													
Floor	All	Concrete (poured)													
Mechanical Equipment	Motor	Not Insulated		Paint											
Piping	All	Not Insulated		Paint											
Structure	Column	Concrete (poured)													
Wall		Concrete (poured)													
Wall		Styrofoam													

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 27 : Ash Flood Station**
Location: #3 : Exterior of Building, Phase: A **Floor: NA** **Room #:** **Area (sqft): 0**
Survey Date: 2009-09-17 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Soffit	Cement Product	Exterior	Paint	C	Y		100			%	V9000	Confirmed Asbestos		Confirmed Asbestos(NF)
Ceiling	Soffit	Aluminum	Exterior	Paint	C	Y									
Wall		Clay Tile (block)	Exterior		A	Y									
Wall		Plaster	Exterior	Paint	A	Y		120			SF	S0001	None Detected	N.D.	None
Wall	Exterior	Mortar	Exterior	Clay Tile (block)	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)

No visual inspection or sampling was conducted at the roof. Roof sections needs to be tested prior to any renovation or demolition activities. Grout (masonry mortar/cement/plaster) on clay tile is presumed asbestos containing.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

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Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 26 : Ash Lift Station**
Location: #1 : Control Room, Phase: A **Floor: Main** **Room #:** **Area (sqft): 0**
Survey Date: 2009-09-17 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Wood													
Ceiling		Styrofoam													
Duct	Supply Air	Mastic, Silver	Joint		B	Y		100			%	S0002	None Detected	N.D.	None
Duct	Supply Air	Not Insulated													
Floor		Steel													
Floor		Concrete (poured)													
Floor		Wood													
Mechanical Equipment	Not Found	None Found													
Piping	Not Found	None Found													
Structure		Steel													
Wall		Concrete (poured)													
Wall		Wood													
Wall		Clay Tile (block)													
Wall		Styrofoam													

Roof sections needs to be tested prior to any renovation or demolition activities.

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 26 : Ash Lift Station**
Location: #2 : Valve Room, Phase: A **Floor: Basement Level 3** **Room #:** **Area (sqft): 0**
Survey Date: 2009-09-17 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Steel													
Ceiling		Concrete (poured)													
Ceiling		Wood													
Duct	Supply Air	Tape	Joint		B	Y		1			SF	V9000	Confirmed Asbestos		Confirmed Asbestos(F)
Duct	Supply Air	Mastic, Silver	Joint		B	Y		100			%	S0002	None Detected	N.D.	None
Duct	Supply Air	Not Insulated													
Floor		Steel													
Floor		Concrete (poured)													
Floor		Wood													
Mechanical Equipment	Not Found	None Found													
Piping	All	Not Insulated													
Structure	Not Found	None Found													
Wall		Concrete (poured)													
Wall		Styrofoam													

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 26 : Ash Lift Station**
Location: #3 : Motor Room, Phase: A **Floor: Basement Level 2** **Room #:** **Area (sqft): 0**
Survey Date: 2009-09-17 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Steel													
Ceiling		Concrete (poured)													
Ceiling		Wood													
Duct	Supply Air	Mastic, Silver	Joint		B	Y		100			%	S0002	None Detected	N.D.	None
Duct	Supply Air	Not Insulated													
Floor		Steel													
Floor		Concrete (poured)													
Floor		Wood													
Mechanical Equipment	Motor	Not Insulated		Paint											
Piping	All	Not Insulated		Paint											
Structure	Not Found	None Found													
Wall	All	Concrete (poured)													

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 26 : Ash Lift Station**
Location: #4 : Pump Room, Phase: A **Floor: Basement Level 1** **Room #:** **Area (sqft): 0**
Survey Date: 2009-09-17 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Steel													
Ceiling		Concrete (poured)													
Ceiling		Wood													
Duct	Supply Air	Not Insulated													
Floor	All	Concrete (poured)													
Mechanical Equipment	Motor	Not Insulated		Paint											
Piping	All	Not Insulated		Paint											
Structure	Not Found	None Found													
Wall	All	Concrete (poured)													

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 26 : Ash Lift Station**
Location: #5 : Exterior of Building, Phase: A **Floor: 1** **Room #:** **Area (sqft): 0**
Survey Date: 2009-09-17 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Wall	Exterior	Plaster	Base		A	Y		100			%	S0001	None Detected	N.D.	None
Wall	Exterior	Mortar	Exterior	Clay Tile (block)	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)

No visual inspection or sampling was conducted at the roof. Roof sections needs to be tested prior to any renovation or demolition activities. Grout (masonry mortar/cement/plaster) on formed block walls (looks like brick) is presumed asbestos containing.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

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Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 29 : Aubrey Flood Station**
Location: #1 : Motor/Control Room, Phase: A **Floor: Main** **Room #:** **Area (sqft): 0**
Survey Date: 2009-09-10 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Concrete (poured)													
Duct	Supply Air	Not Insulated													
Floor	All	Concrete (poured)													
Mechanical Equipment	Motor	Not Insulated													
Piping	All	Not Insulated													
Structure		Steel													
Wall		Concrete (poured)													
Wall		Wood													
Wall		Masonry													
Wall		Mortar						100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

No visual inspection or sampling was conducted at the exterior and roof. Exterior and roof sections needs to be tested prior to any renovation or demolition activities.

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 29 : Aubrey Flood Station**
Location: #2 : Pump Room, Phase: A **Floor: Basement Level 1** **Room #:** **Area (sqft): 0**
Survey Date: 2009-09-10 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Wood													
Ceiling		Styrofoam													
Duct	Supply Air	Not Insulated													
Floor	All	Concrete (poured)													
Mechanical Equipment	Motor	Not Insulated													
Piping	All	Not Insulated													
Structure	Column	Concrete (poured)													
Wall		Concrete (poured)													
Wall		Wood													
Wall		Styrofoam													

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 29 : Aubrey Flood Station**
Location: #3 : Exterior of Building, Phase: A **Floor: NA** **Room #:** **Area (sqft): 0**
Survey Date: 2009-09-10 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	None Found	Not Applicable	N/A	NA	NA									
Duct	Not Found	None Found	Not Applicable	N/A	NA	NA									
Floor	Not Found	None Found	Not Applicable	N/A	NA	NA									
Mechanical Equipment	Not Found	None Found	Not Applicable	N/A	NA	NA									
Piping	Not Found	None Found	Not Applicable	N/A	NA	NA									
Structure		Concrete (poured)	Exterior	N/A	B	N									
Wall	All	Clay Tile (block)	Exterior	N/A	A	Y									
Wall	Exterior	Mortar	Exterior	Clay Tile (block)	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall	Exterior	Caulking	No Information	Paint	A	Y		100			%	S0001	Chrysotile	1-5%	Confirmed Asbestos(NF)

No visual inspection or sampling was conducted at the roof. Roof sections needs to be tested prior to any renovation or demolition activities. Grout (masonry mortar/cement/plaster) on clay tiles is presumed asbestos containing.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 30 : Baltimore Lift Station**
Location: #1 : Control Room, Phase: A **Floor: Main** **Room #:** **Area (sqft): 0**
Survey Date: 2009-09-09 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	None Found													
Duct	All	Mastic, Silver	Joint		B	Y		100			%	S0002	None Detected	N.D.	None
Duct	All	Not Insulated													
Floor		Steel													
Floor		Concrete (poured)													
Mechanical Equipment	Not Found	None Found													
Piping	Not Found	None Found													
Structure	All	Wood													
Wall	All	Masonry													
Wall	All	Vermiculite/concrete block walls	ALL	Masonry	B	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	Interior	Mortar	Surface	Masonry	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)

Roof sections needs to be tested prior to any renovation or demolition activities. Masonry block walls suspect to contain asbestos containing vermiculite. Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 30 : Baltimore Lift Station**
Location: #2 : Motor Room, Phase: A **Floor: Basement Level 3** **Room #:** **Area (sqft): 0**
Survey Date: 2009-09-09 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Styrofoam													
Duct	All	Mastic, Silver	Joint		B	Y		100			%	S0002	None Detected	N.D.	None
Duct	All	Not Insulated													
Floor	All	Concrete (poured)													
Mechanical Equipment	Not Found	None Found		Paint											
Piping	All	Not Insulated		Paint											
Structure	Beam, Deck	Concrete (poured)													
Wall		Concrete (poured)													
Wall		Wood													
Wall		Styrofoam													

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 30 : Baltimore Lift Station**
Location: #3 : Pump Room, Phase: A **Floor: Basement Level 1** **Room #:** **Area (sqft): 0**
Survey Date: 2009-09-09 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Concrete (poured)													
Duct	All	Not Insulated													
Floor	All	Concrete (poured)													
Mechanical Equipment	All	Not Insulated		Paint											
Piping	All	Not Insulated		Paint											
Structure	Beam, Deck	Concrete (poured)													
Wall	All	Concrete (poured)													

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 30 : Baltimore Lift Station**
Location: #4 : Exterior of Building, Phase: A **Floor: 1** **Room #:** **Area (sqft): 0**
Survey Date: 2009-09-09 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Soffit	Aluminum	ALL		C	Y		100			%	V0000	Non-Asbestos		None
Wall	Exterior	Plaster	Base	N/A	A	Y		100			%	S0001	None Detected	N.D.	None
Wall	Exterior	Marble	ALL		A	Y		100			%				
Wall	Exterior	Mortar	Surface	Masonry	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall	Exterior	Vermiculite/concrete block walls	ALL	Masonry	A	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)

Roof sections needs to be tested prior to any renovation or demolition activities. Masonry block walls suspect to contain asbestos containing vermiculite. Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

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Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 78 : Bannatyne Flood Pumping Station**

Location: #1 : Control/Motor Room, Phase: A **Floor: Main** **Room #:** **Area (sqft): 273**

Survey Date: 2010-09-15 **Last Re-Assessment: 2021-07-13**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	N/A	Surface	N/A	C	Y									
Duct	All	Steel	System	Styrofoam	B	Y									
Floor	All	Concrete (poured)	Surface	N/A	B	Y									
Mechanical Equipment	Motor	Steel	System	Paint	B	Y									
Piping	Not Found	N/A													
Structure	Beam	Wood	Surface	N/A	C	Y									
Structure	Column	Concrete (poured)	Surface	N/A	C	Y									
Wall	All	Concrete (poured)	Surface	N/A	B	Y									
Wall	All	Wood	Surface	N/A	B	Y									
Wall	All	Clay Tile (block)	Surface	N/A	A	Y									

Roof sections needs to be tested prior to any renovation or demolition activities.

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 78 : Bannatyne Flood Pumping Station**

Location: #2 : Pump Room, Phase: A **Floor: Basement Level 1** **Room #:** **Area (sqft): 273**

Survey Date: 2010-09-15 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Column	Concrete (poured)	Surface	Styrofoam	C	Y									
Duct	Supply Air	Steel	System	Not Insulated	C	Y									
Floor	All	Concrete (poured)	Surface	N/A	B	Y									
Mechanical Equipment	Motor Generator	Steel	System	Paint	B	Y									
Piping	Drain	Polyvinyl chloride (PVC)	All Pipe	Not Insulated	B	Y									
Piping	Domestic Water (Hot and Cold)	Polyvinyl chloride (PVC)	All Pipe	Not Insulated	B	Y									
Piping	Rain Water Leader	Steel	All Pipe	Not Insulated	B	Y									
Structure	Column	Concrete (poured)	Surface	Styrofoam	C	Y									
Wall		Concrete (poured)	Surface	Styrofoam	C	Y									
Wall		Concrete (poured)	Surface	N/A	C	Y									

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 78 : Bannatyne Flood Pumping Station**

Location: #3 : Exterior of Building, Phase: A **Floor: NA** **Room #:** **Area (sqft): 0**

Survey Date: 2010-09-15 **Last Re-Assessment: 2021-07-13**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Wall	N/A	Clay Tile (block)	Exterior	N/A	A	Y									
Wall	N/A	Plaster	Base	Paint	A	Y		90			SF	S0001	None Detected	N.D.	None
Wall	N/A	Mortar, Sample 0003A-C Lab ID R6725892 July 2021 289439	Exterior		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Roof sections needs to be tested prior to any renovation or demolition activities.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

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Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 72 : Barker Standby Generator Building**

Location: #1 : Generator Room, Phase: A **Floor: Main** **Room #:** **Area (sqft): 97**

Survey Date: 2010-09-17 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
		Fibreglass	Straight	Tar Paper	B	Y									
Ceiling	All	Steel	Surface	Paint	C	Y									
Ceiling	All	Wood	Surface	Paint	C	Y									
Duct	Radiator	Steel	Straight	Fibreglass	B	Y									
Duct	Radiator	Textile	Joint	N/A	B	Y		8			LF	S0005	None Detected	N.D.	None
Floor	All	Concrete (poured)	Surface	Paint	B	Y									
Mechanical Equipment	Fan Unit	Steel	System	Paint	C	Y									
Mechanical Equipment	Generator Exhaust	Parging Cement	Fitting	Steel	B	Y		2			LF	S0002	None Detected	N.D.	None
Mechanical Equipment	Generator Exhaust	Magnesia block	Straight	Steel	C	Y		7			LF	S0003	None Detected	N.D.	None
Mechanical Equipment	Generator Unit	Steel	System	Paint	B	Y									
Mechanical Equipment	Generator Unit	Not Insulated													
Piping	Generator Exhaust	Parging Cement	Fitting	Mastic, Silver	B	Y		2			EA	V0000	Non-Asbestos		None
Piping	Generator Exhaust	Magnesia block	Straight	Metal	B	Y		12			LF	V0000	Non-Asbestos		None
Piping	Generator Exhaust	Mastic, Silver	Surface	N/A	B	Y		100			%	V9000	Confirmed Asbestos		Confirmed Asbestos(NF)
Piping	Radiator	Steel	All Pipe	Not Insulated	B	Y									
Piping	Radiator	Rubber	Joint	N/A	B	Y									
Structure	Not Found	N/A													
Wall	All	Wood	Surface	Paint	B	Y									
Wall	All	Masonry	Surface	N/A	A	Y									
Wall	All	Vermiculite/concrete block walls	ALL	Masonry	B	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)

069 Silver Mastic Sampled in Perimeter Lift Station: 0.1 - 1% CH. Magblock Sampled and found to be non-asbestos in other Lift Stations

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 72 : Barker Standby Generator Building**

Location: #2 : Exterior of Building, Phase: A **Floor: NA** **Room #:** **Area (sqft): 0**

Survey Date: 2010-09-17 **Last Re-Assessment: 2021-07-13**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Soffit	Aluminum	Surface	Paint	C	Y									
Wall		Concrete (precast)			A	Y									
Wall		Plaster	Surface		A	Y		100			%	S0006	None Detected	N.D.	None
Wall		Masonry	Surface		A	Y									
Wall		Vermiculite/concrete block walls	Insulation	Masonry	B	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	Exterior	Mortar	Exterior	Masonry	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)

Concrete block walls suspect to contain vermiculite (test first before doing renovation activities) No visual inspection or sampling was conducted at the roof. Roof sections needs to be tested prior to any renovation or demolition activities. Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 3 : Burrows Lift Station**
Location: #1 : Lift Station, Phase: A **Floor: Main** **Room #:** **Area (sqft): 0**
Survey Date: 2008-03-26 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Wood													
Duct	Not Found	NI													
Floor		Concrete (poured)													
Mechanical Equipment	Generator Unit	Not Insulated													
Other	Radiator	Abated Material	System	N/A	B	N					SF	S0001	[None]	1-5%	[Abated]
Piping	Generator Exhaust	Parging Cement	Fitting	Mastic, Silver	B	Y		1			EA	S0005	None Detected	N.D.	None
Piping	Generator Exhaust	Magnesia block	Straight	Metal	B	Y		3			LF	V0000	Non-Asbestos		None
Piping	Generator Exhaust	Abated Material	Fitting	N/A	B	Y					%	V9000	[None]		[Abated]
Structure	Not Accessible	NI													
Wall	All	Vermiculite/concrete block walls	ALL	Masonry	B	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	Interior	Mortar	Surface	Masonry	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry													

Lift station under renovation during 2017 update. Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 3 : Burrows Lift Station**
Location: #2 : Exterior of Building, Phase: A **Floor: NA** **Room #:** **Area (sqft): 0**
Survey Date: 2008-03-26 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Soffit	Aluminum	Surface	Paint	C	Y									
Wall		Concrete (poured)		Plaster	A	Y									
Wall		Plaster	Surface		A	Y		100			%	S0002	None Detected	N.D.	None
Wall		Preformed Block	Surface	Quarry tile	A	Y						V0000	Non-Asbestos		None
Wall		Quarry tile	Surface		A	Y									
Wall		Vermiculite/concrete block walls	Insulation		B	N		99		1	SF	V9000	Confirmed Asbestos		Confirmed Asbestos(F)
Wall	Exterior	Mortar	Surface	Masonry	A	Y		100			%	V0000	Non-Asbestos		None

Preformed blocks on walls confirmed to contain vermiculite Roof sections needs to be tested prior to any renovation or demolition activities. Grout (masonry mortar/cement/plaster) on Preformed block walls Non-asbestos 2 samples - July 2020

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

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Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 56 : Clarence Lift Station**
Location: #1 : Control Room, Phase: A **Floor: Main Floor** **Room #:** **Area (sqft): 0**
Survey Date: 2010-05-03 **Last Re-Assessment: 2021-07-13**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Wood	Surface	Paint	C	Y									
Duct	Return Air	Cement Product	Straight	Paint	B	Y		10			LF	V9000	Confirmed Asbestos		Confirmed Asbestos(NF)
Duct	Supply Air	Cement Product	Straight	Paint	B	Y		10			LF	V9000	Confirmed Asbestos		Confirmed Asbestos(NF)
Duct	Supply Air	Cement Product	Fitting	Paint	B	Y		1			EA	V9000	Confirmed Asbestos		Confirmed Asbestos(NF)
Floor	All	Concrete (poured)													
Mechanical Equipment	Motor	Steel	System	Not Insulated	B	Y									
Piping	All	Steel	All Pipe	Not Insulated	B	Y									
Piping	Return Air	Mastic, Red	Straight	Paint	A	Y		100			%	S0002	None Detected	N.D.	None
Structure	Not Found	None Found													
Wall	All	Wood	Surface	Paint	A	Y									
Wall	All	Clay Tile (block)	Surface	Preformed Block	A	Y									
Wall	All	Preformed Block	Surface	Wood	A	Y									
Wall	All	Vermiculite/concrete block walls	ALL	Masonry	B	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	Interior	Mortar	Surface	Masonry	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)

Masonry block walls under the bricks suspect to contain asbestos containing vermiculite. Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 56 : Clarence Lift Station**
Location: #2 : Pump/Motor Room, Phase: A **Floor: Basement Level 1** **Room #:** **Area (sqft): 0**
Survey Date: 2010-05-03 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Styrofoam	Surface	Paint	B	Y									
Ceiling	All	Concrete (poured)	Surface	Styrofoam	B	Y									
Duct	Return Air	Cement Product	Straight	Paint	C	Y		20			LF	V9000	Confirmed Asbestos		Confirmed Asbestos(NF)
Duct	Return Air	Cement Product	Fitting	Paint	C	Y		2			EA	V9000	Confirmed Asbestos		Confirmed Asbestos(NF)
Floor	All	Concrete (poured)	Surface	Paint	B	Y									
Mechanical Equipment	Motor Generator	Steel	System	Not Insulated	B	Y									
Piping	Domestic Water (Hot and Cold)	Polyvinyl chloride (PVC)	All Pipe	Not Insulated	B	Y									
Piping	Rain Water Leader	Steel	All Pipe	Not Insulated	B	Y									
Wall		Styrofoam	Surface	Paint	B	Y									
Wall	All	Concrete (poured)	Surface	Styrofoam	B	Y									

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 56 : Clarence Lift Station**
Location: #3 : Exterior of Building, Phase: A **Floor: NA** **Room #:** **Area (sqft): 0**
Survey Date: 2010-05-03 **Last Re-Assessment: 2021-07-13**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Soffit	Wood	Surface	Paint	C	Y									
Wall		Concrete (poured)	Surface	Plaster	A	Y									
Wall		Clay Tile (block)	Surface	N/A	A	Y									
Wall		Plaster	Surface		A	Y		44	22		SF	S0001	None Detected	N.D.	None
Wall	All	Vermiculite/concrete block walls	ALL	Masonry	B	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	Exterior	Mortar	Surface	Clay Tile (block)	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)

Roof sections needs to be tested prior to any renovation or demolition activities. Masonry block walls under the bricks suspect to contain asbestos containing vermiculite. Grout (masonry mortar/cement/plaster) on clay tiles is presumed asbestos containing.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

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Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 32 : Clifton Lift Station**
Location: #1 : Control Room, Phase: A **Floor: Main** **Room #:** **Area (sqft): 0**
Survey Date: 2009-09-10 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Styrofoam													
Duct	Supply Air	Not Insulated													
Floor	All	Concrete (poured)													
Mechanical Equipment	Not Found	None Found													
Piping	All	Not Insulated		Paint											
Structure		Steel													
Wall		Clay Tile (block)													
Wall		Styrofoam		Clay Tile (block)											
Wall	All	Masonry		Styrofoam											
Wall	All	Vermiculite/concrete block walls	ALL	Masonry	B	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	Interior	Mortar	Surface	Masonry	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)

Roof sections needs to be tested prior to any renovation or demolition activities. Masonry block walls under the bricks suspect to contain asbestos containing vermiculite. Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 32 : Clifton Lift Station**

Location: #2 : Comminuter Chamber Access Room, Phase: A **Floor: Basement Level 3** **Room #:** **Area (sqft): 0**

Survey Date: 2009-09-10 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Concrete (poured)													
Duct	Supply Air	Mastic, Silver	Joint		B	Y		100			%	S0001	None Detected	N.D.	None
Duct	Supply Air	Not Insulated													
Floor		Steel													
Floor		Concrete (poured)													
Floor		Wood													
Mechanical Equipment	Not Found	None Found													
Piping	All	Not Insulated		Paint											
Structure	Not Found	None Found													
Wall	All	Concrete (poured)													

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 32 : Clifton Lift Station**
Location: #3 : Motor Room, Phase: A **Floor: Basement Level 2** **Room #:** **Area (sqft): 0**
Survey Date: 2009-09-10 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Concrete (poured)													
Duct	Supply Air	Not Insulated													
Floor	All	Concrete (poured)													
Mechanical Equipment	Motor	Not Insulated		Paint											
Piping	All	Not Insulated		Paint											
Structure	Not Found	None Found													
Wall	All	Concrete (poured)													

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 32 : Clifton Lift Station**
Location: #4 : Pump Room, Phase: A **Floor: Basement Level 1** **Room #:** **Area (sqft): 0**
Survey Date: 2009-09-10 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Concrete (poured)													
Duct	Supply Air	Not Insulated													
Floor	All	Concrete (poured)													
Mechanical Equipment	Motor	Not Insulated		Paint											
Piping	All	Not Insulated		Paint											
Structure	Column	Concrete (poured)													
Wall	All	Concrete (poured)													

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 32 : Clifton Lift Station**
Location: #5 : Exterior of Building, Phase: A **Floor: NA** **Room #:** **Area (sqft): 0**
Survey Date: 2009-09-10 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Wall		Concrete (poured)	Exterior	N/A	A	Y									
Wall		Clay Tile (block)	Exterior	N/A	A	Y									
Wall	All	Masonry		Clay Tile (block)											
Wall	All	Vermiculite/concrete block walls	ALL	Masonry	B	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	Exterior	Mortar	Surface	Masonry	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)

Roof Sections needs to be tested prior to any renovation or demolition activities. Masonry block walls under the bricks suspect to contain asbestos containing vermiculite. Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 34 : Cockburn Combined Lift/Flood Station**

Location: #1 : Control/Flood Motor Room, Phase: A **Floor: Main** **Room #:** **Area (sqft): 0**

Survey Date: 2009-09-09 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Concrete (poured)													
Duct	All	Not Insulated													
Floor	All	Concrete (poured)													
Mechanical Equipment	Motor	Not Insulated		Paint											
Piping	All	Not Insulated		Paint											
Structure		Steel													
Wall		Concrete (poured)													
Wall		Wood													
Wall		Clay Tile (block)													

No visual inspection or sampling was conducted at the exterior and roof. Exterior and roof sections needs to be tested prior to any renovation or demolition activities.

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 34 : Cockburn Combined Lift/Flood Station**

Location: #2 : Comminuter Chamber Access Room, Phase: A **Floor: Basement Level 3** **Room #:** **Area (sqft): 0**

Survey Date: 2009-09-09 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Concrete (poured)													
Duct	All	Not Insulated													
Floor	All	Concrete (poured)													
Mechanical Equipment		None Found													
Piping	All	Not Insulated													
Structure		None Found													
Wall	All	Concrete (poured)													

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 34 : Cockburn Combined Lift/Flood Station**

Location: #3 : Pump Room, Phase: A **Floor: Basement Level 2** **Room #:** **Area (sqft): 0**

Survey Date: 2009-09-09 **Last Re-Assessment: 2021-07-13**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Styrofoam													
Duct	All	Not Insulated													
Floor	All	Concrete (poured)													
Mechanical Equipment	Motor	Not Insulated		Paint											
Piping	All	Not Insulated		Paint											
Structure	All	Concrete (poured)													
Wall		Concrete (poured)													
Wall		Styrofoam													

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 34 : Cockburn Combined Lift/Flood Station**

Location: #4 : Sanitary Pump Room, Phase: A **Floor: Basement Level 1** **Room #:** **Area (sqft): 0**

Survey Date: 2009-09-09 **Last Re-Assessment: 2021-07-13**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Concrete (poured)													
Duct		None Found													
Floor	All	Concrete (poured)													
Mechanical Equipment	Motor	Not Insulated		Paint											
Piping	All	Not Insulated		Paint											
Structure	All	Concrete (poured)													
Wall	All	Concrete (poured)													

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 34 : Cockburn Combined Lift/Flood Station**

Location: #5 : Sanitary Motor Room, Phase: A **Floor: Basement Level 3** **Room #:** **Area (sqft): 0**

Survey Date: 2009-09-09 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Concrete (poured)													
Duct	All	Not Insulated		Paint											
Floor	All	Concrete (poured)													
Mechanical Equipment	Motor	Not Insulated		Paint											
Piping	All	Not Insulated		Paint											
Structure	All	Concrete (poured)													
Wall	All	Concrete (poured)													

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 34 : Cockburn Combined Lift/Flood Station**

Location: #6 : Exterior of Building, Phase: A **Floor: NA** **Room #:** **Area (sqft): 0**

Survey Date: 2009-09-09 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	N/A	Aluminum	Exterior	Paint	C	Y									
Duct	All	Metal	Not Applicable	Paint	C	Y									
Other	Roof	Aluminum	Exterior	Paint	C	Y									
Piping	All	Metal													
Wall	Exterior	Plaster	Base	N/A	A	Y		236			SF	S0001	None Detected	N.D.	None
Wall	N/A	Clay Tile (block)	Exterior	N/A	A	Y									
Wall	N/A	Mortar	Exterior	Clay Tile (block)	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 74 : Colony Diversion Chamber**
Location: #1 : Control Room, Phase: A **Floor: Main** **Room #:** **Area (sqft): 42**
Survey Date: 2010-09-16 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Concrete (poured)	Surface	Paint	C	Y									
Duct	Supply Air	Steel	System	Not Insulated	B	Y									
Duct	Supply Air	Rubber	System	Not Insulated	B	Y									
Floor		Wood	Surface	Paint	B	Y									
Floor	All	Concrete (poured)	Surface	Paint	B	Y									
Mechanical Equipment	Fan Unit	Steel	System	Paint	B	Y									
Piping	Rain Water Leader	Steel	All Pipe	Paint	B	Y									
Structure	Beam	Steel	Surface	Paint	C	Y									
Wall	All	Concrete (poured)	Surface	Paint	B	Y									
Wall	All	Clay Tile (block)	Surface	N/A	A	Y									

Roof sections needs to be tested prior to any renovation or demolition activities.

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 74 : Colony Diversion Chamber**

Location: #2 : Comminuter Chamber Access Room, Phase: A **Floor: Basement Level 2** **Room #:** **Area (sqft): 84**

Survey Date: 2010-09-16 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Wood	Surface	N/A	C	Y									
Ceiling	All	Concrete (poured)	Surface	Paint	C	Y									
Duct	Supply Air	Steel	System	Paint	B	Y									
Floor		Steel	Surface	Paint	B	Y									
Floor	All	Concrete (poured)	Surface	Paint	B	Y									
Mechanical Equipment	Not Found	N/A													
Piping	Domestic Water (Hot and Cold)	Polyvinyl chloride (PVC)	All Pipe	Not Insulated	B	Y									
Piping	Rain Water Leader	Steel	All Pipe	Paint	B	Y									
Structure	Not Found	N/A													
Wall	All	Concrete (poured)	Surface	Paint	B	Y									

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 74 : Colony Diversion Chamber**
Location: #3 : Pump Room, Phase: A **Floor: Basement Level 1** **Room #:** **Area (sqft): 0**
Survey Date: 2010-09-16 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Steel	Surface	N/A	C	Y									
Ceiling	All	Concrete (poured)	Surface	N/A	C	Y									
Duct	Supply Air	Steel	System	Paint	B	Y									
Floor	All	Concrete (poured)	Surface	N/A	B	Y									
Mechanical Equipment	Motor Generator	Steel	System	Not Insulated	B	Y									
Piping	Domestic Water (Hot and Cold)	Polyvinyl chloride (PVC)	All Pipe	Not Insulated	B	Y									
Piping	Rain Water Leader	Steel	All Pipe	Not Insulated	B	Y									
Structure	Not Found	N/A													
Wall	All	Concrete (poured)	Surface	N/A	B	Y									

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 74 : Colony Diversion Chamber**
Location: #4 : Exterior of Building, Phase: A **Floor: NA** **Room #:** **Area (sqft): 0**
Survey Date: 2010-09-16 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Wall	Exterior	Concrete (poured)	Base	N/A	A	Y									
Wall	N/A	Plaster	Exterior	Paint	A	Y		260			SF	S0001	None Detected	N.D.	None
Wall	N/A	Mortar, Sample 0004A-C Lab ID R6725892 July 2021 289439	Exterior	Plaster	A	Y		100			%	V0000	Non-Asbestos		None

Plaster is formed and painted to make it look like clay tile bricks. Roof sections needs to be tested prior to any renovation or demolition activities.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 79 : Colony Flood Pumping Station**

Location: #1 : Motor/Control Room, Phase: A **Floor: Main** **Room #:** **Area (sqft): 483**

Survey Date: 2010-09-16 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Concrete (poured)	Surface	N/A	C	Y									
Duct	Supply Air	Steel	System	Paint	B	Y									
Floor		Concrete (poured)	Surface	N/A	B	Y									
Floor		Wood	Surface	Paint	B	Y									
Mechanical Equipment	Fan Unit	Steel	System	Paint	B	Y									
Mechanical Equipment	Motor Generator	Steel	System	Paint	B	Y									
Piping	Rain Water Leader	Steel	All Pipe	Paint	B	Y									
Structure	Beam	Steel	Surface	Paint	C	Y									
Wall		Wood	Surface	Paint	B	Y									
Wall		Clay Tile (block)	Surface	N/A	B	Y									
Wall		Clay Tile (block)	Surface	N/A	A	Y									

No visual inspection or sampling was conducted at the exterior and roof. Exterior and roof sections needs to be tested prior to any renovation or demolition activities.

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 79 : Colony Flood Pumping Station**

Location: #2 : Pump Room, Phase: A **Floor: Basement Level 1** **Room #:** **Area (sqft): 483**

Survey Date: 2010-09-16 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Concrete (poured)	Surface	Styrofoam	C	Y									
Duct	Supply Air	Steel	System	Not Insulated	C	Y									
Floor	All	Concrete (poured)	Surface	Paint	B	Y									
Mechanical Equipment	Motor Generator	Steel	System	Paint	B	Y									
Piping	Domestic Water (Hot and Cold)	Steel	All Pipe	Not Insulated	B	Y									
Piping	Domestic Water (Hot and Cold)	Polyvinyl chloride (PVC)	All Pipe	Paint	B	Y									
Piping	Rain Water Leader	Steel	All Pipe	Paint	B	Y									
Structure	Column	Concrete (poured)	Surface	Styrofoam	C	Y									
Structure	Column	Concrete (poured)	Surface	N/A	C	Y									
Wall		Concrete (poured)	Surface	Styrofoam	C	Y									
Wall		Concrete (poured)	Surface	N/A	C	Y									

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 79 : Colony Flood Pumping Station**

Location: #3 : Exterior of Building, Phase: A **Floor: NA** **Room #:** **Area (sqft): 0**

Survey Date: 2010-09-16 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Wall	All	Plaster	Exterior	Paint	A	Y		900			SF	V9500	Presumed Asbestos		Presumed Asbestos(PF)
Wall	All	Mortar	Exterior	Plaster	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall	Exterior	Concrete (poured)	Base	N/A	A	Y									

Plaster is formed and painted to look like bricks. No visual inspection or sampling was conducted at the roof. Roof sections needs to be tested prior to any renovation or demolition activities.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 69 : Conway Lift Station**
Location: #1 : Control Room, Phase: A **Floor: Main Floor** **Room #:** **Area (sqft): 0**
Survey Date: 2010-05-06 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Styrofoam	Surface		C	Y									
Duct	Supply Air	Steel	System	Not Insulated	B	Y									
Floor		Wood	Surface	Paint	B	Y									
Floor	All	Concrete (poured)	Surface	Paint	B	Y									
Mechanical Equipment	Fan Unit	Steel	System	Not Insulated	B	Y									
Piping	Rain Water Leader	Steel	All Pipe	Not Insulated	B	Y									
Structure	All	Steel	Surface	Paint	C	Y									
Wall		Wood	Surface	Paint	B	Y									
Wall	All	Clay Tile (block)	Surface		A	Y									
Wall	All	Styrofoam	Surface	Wood	B	Y									

Roof sections needs to be tested prior to any renovation or demolition activities.

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 69 : Conway Lift Station**
Location: #2 : Comminuter Room, Phase: A **Floor: Basement Level 3** **Room #:** **Area (sqft): 0**
Survey Date: 2010-05-06 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Concrete (poured)	Surface	Paint	B	Y									
Duct	Supply Air	Steel	System	Not Insulated	B	Y									
Floor		Steel	Surface	Paint	B	Y									
Floor		Wood	Surface	Paint	B	Y									
Floor	All	Concrete (poured)	Surface	Paint	B	Y									
Mechanical Equipment	Not Found	None Found													
Piping	Rain Water Leader	Steel	All Pipe	Not Insulated	B	Y									
Structure	All	Concrete (poured)	Surface	Paint	B	Y									
Wall		Concrete (poured)	Surface	Styrofoam	B	Y									
Wall	All	Concrete (poured)	Surface	Paint	B	Y									

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 69 : Conway Lift Station**
Location: #3 : Comminuter Dry Well, Phase: A **Floor: Basement Level 2** **Room #:** **Area (sqft): 0**
Survey Date: 2010-05-06 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Concrete (poured)	Surface		C	Y									
Duct	Supply Air	Steel	System	Not Insulated	C	Y									
Floor	All	Concrete (poured)	Surface		B	Y									
Mechanical Equipment	Motor Generator	Steel	System	Not Insulated	B	Y									
Piping	Rain Water Leader	Steel	All Pipe	Not Insulated	B	Y									
Structure	All	Concrete (poured)	Surface		C	Y									
Wall	All	Concrete (poured)	Surface		B	Y									

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 69 : Conway Lift Station**
Location: #4 : Motor Room, Phase: A **Floor: Basement Level 2** **Room #:** **Area (sqft): 0**
Survey Date: 2010-05-06 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Concrete (poured)	Surface	Paint	B	Y									
Duct	Supply Air	Steel	System	Not Insulated	B	Y									
Floor		Steel	Surface		B	Y									
Floor	All	Concrete (poured)	Surface	Paint	B	Y									
Mechanical Equipment	Motor	Steel	System	Not Insulated	B	Y									
Piping	Domestic Water (Hot and Cold)	Polyvinyl chloride (PVC)	All Pipe	Not Insulated	B	Y									
Piping	Rain Water Leader	Steel	All Pipe	Not Insulated	B	Y									
Structure	All	Concrete (poured)	Surface	Paint	B	Y									
Wall	All	Concrete (poured)	Surface	Paint	B	Y									

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 69 : Conway Lift Station**
Location: #5 : Pump Room, Phase: A **Floor: Basement Level 1** **Room #:** **Area (sqft): 0**
Survey Date: 2010-05-06 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Steel	Surface		B	Y									
Ceiling	All	Concrete (poured)	Surface	Paint	B	Y									
Duct	Supply Air	Steel	System	Not Insulated	C	Y									
Floor	All	Concrete (poured)	Surface	Paint	B	Y									
Mechanical Equipment	Motor	Steel	System	Not Insulated	B	Y									
Piping	Domestic Water (Hot and Cold)	Polyvinyl chloride (PVC)	All Pipe	Not Insulated	B	Y									
Piping	Rain Water Leader	Steel	All Pipe	Not Insulated	B	Y									
Piping	Rain Water Leader	Polyvinyl chloride (PVC)	All Pipe	Not Insulated	C	Y									
Structure	All	Concrete (poured)	Surface	Paint	B	Y									
Wall	All	Concrete (poured)	Surface	Paint	B	Y									

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 69 : Conway Lift Station**
Location: #6 : Exterior of Building, Phase: A **Floor: NA** **Room #:** **Area (sqft): 0**
Survey Date: 2010-05-06 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Piping	Unidentified Pipe	Polyvinyl chloride (PVC)	Exterior	Steel	A	Y									
Structure	Exterior	Concrete (poured)	Base	Paint	A	Y									
Wall	All	Plaster	Exterior	Paint	A	Y		190			SF	V9500	Presumed Asbestos		Presumed Asbestos(PF)
Wall	All	Mortar	Exterior	Plaster	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)

Plaster is formed and painted to make it look like bricks. Roof sections needs to be tested prior to any renovation or demolition activities.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

ALL DATA REPORT

PINCHIN
1.855.PINCHIN www.pinchin.com

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 35 : Cornish Lift Station**
Location: #1 : Control Room, Phase: A **Floor: Main** **Room #:** **Area (sqft): 0**
Survey Date: 2009-09-10 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Styrofoam													
Duct	Supply Air	Mastic, Red	Joint	Paint	B	Y		100			%	S0002	Chrysotile	0.1-1%	Confirmed Asbestos(NF)
Duct	Supply Air	Not Insulated		Paint											
Floor	All	Concrete (poured)													
Mechanical Equipment	Not Found	None Found													
Piping	Not Found	None Found													
Structure		Steel													
Wall		Wood													
Wall		Clay Tile (block)													
Wall		Styrofoam													

No visual inspection or sampling was conducted at the exterior and roof. Exterior and roof sections needs to be tested prior to any renovation or demolition activities.

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 35 : Cornish Lift Station**
Location: #2 : Valve Room, Phase: A **Floor: Basement Level 1** **Room #:** **Area (sqft): 0**
Survey Date: 2009-09-10 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Concrete (poured)													
Duct	Supply Air	Not Insulated		Paint											
Floor	All	Concrete (poured)													
Mechanical Equipment	Not Found	None Found													
Piping	All	Not Insulated		Paint											
Structure	Not Found	None Found													
Wall	All	Concrete (poured)													

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 35 : Cornish Lift Station**
Location: #3 : Pump Room, Phase: A **Floor: Basement Level 1** **Room #:** **Area (sqft): 0**
Survey Date: 2009-09-10 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Concrete (poured)													
Duct	Supply Air	Not Insulated		Paint											
Floor	All	Concrete (poured)													
Mechanical Equipment	Motor	Not Insulated		Paint											
Piping	All	Not Insulated		Paint											
Structure	Not Found	None Found													
Wall	All	Concrete (poured)													

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 35 : Cornish Lift Station**
Location: #4 : Exterior of Building, Phase: A **Floor: NA** **Room #:** **Area (sqft): 0**
Survey Date: 2009-09-10 **Last Re-Assessment: 2021-07-13**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Metal	Exterior		C	Y									
Wall		Clay Tile (block)	Exterior	Paint	A	Y									
Wall	Exterior	Plaster	Base		A	Y		100			%	S0001	None Detected	N.D.	None
Wall	Exterior	Mortar	Exterior	Masonry	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)

Roof Sections needs to be tested prior to any renovation or demolition activities. Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

ALL DATA REPORT

PINCHIN
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Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 92 : Dugald Road Lift Station**
Location: #2 : Exterior of Building, Phase: A **Floor: NA** **Room #:** **Area (sqft): 0**
Survey Date: 2010-09-16 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Aluminum	Exterior	Paint	C	Y									
Other	Roof	Aluminum	Exterior	Paint	C	Y									
Structure	All	Metal	Exterior	Paint	C	Y									
Wall	N/A	Clay Tile (block)	Exterior	N/A	A	Y									
Wall	N/A	Marble	Exterior	N/A	A	Y									
Wall	N/A	Mortar, Non-asbestos Samples 0006A-C 289439 July 2021	Exterior		A	Y		100			%	V0000	Non-Asbestos		None
Wall	N/A	Mortar, Non-asbestos Samples 0006A-C 289439 July 2021	Exterior		A	Y		100			%	V0000	Non-Asbestos		None

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 70 : Ferry Road Lift Station**
Location: #1 : Control Room, Phase: A **Floor: Main Floor** **Room #:** **Area (sqft): 0**
Survey Date: 2010-05-06 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Styrofoam	Surface	Paint	C	Y									
Duct	Supply Air	Steel	System	Not Insulated	B	Y									
Floor		Steel	Surface	Paint	B	Y									
Floor	All	Concrete (poured)	Surface	Paint	B	Y									
Mechanical Equipment	Fan Unit	Steel	System	Not Insulated	B	Y									
Piping	Rain Water Leader	Steel	All Pipe	Not Insulated	B	Y									
Structure	All	Steel	Surface	Paint	C	Y									
Wall		Wood	Surface		B	Y									
Wall		Styrofoam	Surface	Wood	B	Y									
Wall	All	Clay Tile (block)	Surface		A	Y									
Wall	All	Masonry	Surface	Styrofoam	B	Y									

No visual inspection or sampling was conducted at the exterior and roof. Exterior and roof sections needs to be tested prior to any renovation or demolition activities.

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 70 : Ferry Road Lift Station**
Location: #2 : Comminuter Room, Phase: A **Floor: Basement Level 3** **Room #:** **Area (sqft): 0**
Survey Date: 2010-05-06 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Steel	Surface	Paint	C	Y									
Ceiling		Concrete (poured)	Surface	Styrofoam	C	Y									
Ceiling		Wood	Surface	Paint	C	Y									
Duct	Supply Air	Steel	System	Not Insulated	B	Y									
Floor		Steel	Surface	Paint	B	Y									
Floor		Wood	Surface	Paint	B	Y									
Floor	All	Concrete (poured)	Surface		B	Y									
Mechanical Equipment	Not Found	None Found													
Piping	Rain Water Leader	Steel	All Pipe	Not Insulated	B	Y									
Structure	All	Concrete (poured)	Surface	Paint	C	Y									

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 70 : Ferry Road Lift Station**
Location: #3 : Comminuter Dry Well, Phase: A **Floor: Basement Level 2** **Room #:** **Area (sqft): 0**
Survey Date: 2010-05-06 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Concrete (poured)	Surface		C	Y									
Duct	Supply Air	Steel	System	Not Insulated	B	Y									
Floor	All	Concrete (poured)	Surface		B	Y									
Mechanical Equipment	Motor Generator	Steel	System	Not Insulated	B	Y									
Piping	Domestic Water (Hot and Cold)	Styrofoam	All Pipe	Not Insulated	B	Y									
Piping	Rain Water Leader	Steel	All Pipe	Not Insulated	B	Y									
Structure	All	Concrete (poured)	Surface		C	Y									
Wall	All	Concrete (poured)	Surface		B	Y									

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 70 : Ferry Road Lift Station**
Location: #4 : Motor Room, Phase: A **Floor: Basement Level 2** **Room #:** **Area (sqft): 0**
Survey Date: 2010-05-06 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Concrete (poured)	Surface	Paint	B	Y									
Duct	Supply Air	Steel	System	Not Insulated	B	Y									
Floor		Wood	Surface	Paint	B	Y									
Floor	All	Concrete (poured)	Surface	Paint	B	Y									
Mechanical Equipment	Motor	Steel	System	Not Insulated	B	Y									
Piping	Domestic Water (Hot and Cold)	Polyvinyl chloride (PVC)	All Pipe	Not Insulated	B	Y									
Piping	Rain Water Leader	Steel	All Pipe	Not Insulated	B	Y									
Structure	All	Concrete (poured)	Surface	Paint	B	Y									
Wall	All	Concrete (poured)	Surface	Paint	B	Y									

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 70 : Ferry Road Lift Station**
Location: #5 : Pump Room, Phase: A **Floor: Basement Level 1** **Room #:** **Area (sqft): 0**
Survey Date: 2010-05-06 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Wood	Surface	Paint	C	Y									
Ceiling	All	Concrete (poured)	Surface	Paint	C	Y									
Duct	Supply Air	Steel	System	Not Insulated	B	Y									
Floor	All	Concrete (poured)	Surface	Paint	B	Y									
Mechanical Equipment	Motor	Steel	System	Not Insulated	B	Y									
Piping	Domestic Water (Hot and Cold)	Polyvinyl chloride (PVC)	All Pipe	Not Insulated	B	Y									
Piping	Rain Water Leader	Steel	All Pipe	Not Insulated	B	Y									
Piping	Rain Water Leader	Polyvinyl chloride (PVC)	All Pipe	Not Insulated	C	Y									
Structure	All	Concrete (poured)	Surface	Paint	B	Y									
Wall	All	Concrete (poured)	Surface	Paint	B	Y									

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 70 : Ferry Road Lift Station**
Location: #6 : Exterior of Building, Phase: A **Floor: NA** **Room #:** **Area (sqft): 0**
Survey Date: 2010-05-06 **Last Re-Assessment: 2021-07-13**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Structure	Exterior	Concrete (poured)	Base	Paint	A	Y									
Wall	All	Clay Tile (block)	Exterior	Paint	A	Y		200			SF				
Wall	All	Mortar	Exterior	Clay Tile (block)	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)

No visual inspection or sampling was conducted at the roof. Roof sections needs to be tested prior to any renovation or demolition activities.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

ALL DATA REPORT

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Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 6 : Heritage Lift Station**
Location: #1 : Lift Station, Phase: A **Floor: Main** **Room #:** **Area (sqft): 0**
Survey Date: 2008-03-26 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Cement Product	Surface	Paint	C	Y		396			SF	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Duct	Exhaust	Cement Product	System	Paint	B	Y		15			LF	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Floor		Concrete (poured)													
Mechanical Equipment	All	Not Insulated													
Piping	All	Not Insulated													
Structure	Not Accessible	N/A													
Wall		Cement Product	Surface	Paint	B	Y		1539			SF	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 6 : Heritage Lift Station**
Location: #2 : Wet Well, Phase: A **Floor: Main** **Room #:** **Area (sqft): 0**
Survey Date: 2008-03-26 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Cement Product	Surface	Paint	C	Y		25			SF	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Duct	Exhaust	Abated Material	System	N/A	B	Y					LF	V9500	[None]		[Abated]
Floor		Concrete (poured)													
Mechanical Equipment	All	Not Insulated													
Piping	All	Not Insulated													
Structure	Deck	Concrete (poured)													
Wall		Cement Product	Surface	Paint	B	Y		131			SF	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 6 : Heritage Lift Station**
Location: #3 : Drywell - Valve Room, Phase: A **Floor: Basement Level 3** **Room #:** **Area (sqft): 0**
Survey Date: 2008-03-26 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Concrete (poured)													
Duct	Exhaust	Cement Product	System	Paint	C	Y		15			LF	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Floor	All	Concrete (poured)													
Mechanical Equipment	Not Found	None Found													
Piping	All	Not Insulated													
Structure		Steel													
Wall	All	Concrete (poured)													

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 6 : Heritage Lift Station**
Location: #4 : Drywell - Pump Room, Phase: A **Floor: basement Level 1** **Room #:** **Area (sqft): 0**
Survey Date: 2008-03-26 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Concrete (poured)													
Duct	Exhaust	Cement Product	System	Paint	C	Y		10			LF	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Floor	All	Concrete (poured)													
Mechanical Equipment	Motor	Not Insulated													
Piping	All	Not Insulated													
Structure	Not Found	None Found													
Wall	All	Concrete (poured)													

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 6 : Heritage Lift Station**
Location: #5 : Exterior of Building, Phase: A **Floor: NA** **Room #:** **Area (sqft): 0**
Survey Date: 2008-03-26 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Soffit	Wood	Surface	Paint	C	Y									
Wall		Drywall and joint compound		Tar	B	N		100			%				
Wall		Plaster	Surface		A	Y		100			%	S0002	None Detected	N.D.	None
Wall		Aluminum	Surface	Paint	A	Y									
Wall		Tar		Aluminum	B	N		100			%	S0001	None Detected	N.D.	None

No visual inspection or sampling was conducted at the roof. Roof sections needs to be tested prior to any renovation or demolition activities.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

ALL DATA REPORT

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Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 112 : Jefferson Diversion Station**
Location: #2 : Exterior of Building, Phase: A **Floor: NA** **Room #:** **Area (sqft): 0**
Survey Date: **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	None Found	Not Applicable	N/A	NA	NA									
Duct		Steel	No Information	Paint	C	Y									
Floor	Not Found	None Found	Not Applicable	N/A	NA	NA									
Mechanical Equipment	Not Found	None Found	Not Applicable	N/A	NA	NA									
Piping	Not Found	None Found	Not Applicable	N/A	NA	NA									
Structure	All	Concrete (poured)	Exterior	N/A	NA	N									
Wall	All	Clay Tile (block)	Exterior	Paint	A	Y									
Wall	Exterior	Mortar, Sample 0002A-C Non-asbestos July 2201 289439	Surface		A	Y		100			%	V0000	Non-Asbestos		None

No visual inspection or sampling was conducted at the roof. Roof sections needs to be tested prior to any renovation or demolition activities. Grout (masonry mortar/cement/plaster) on clay tiles is presumed asbestos containing.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

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Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 7 : Keewatin Underpass Lift Station**

Location: #1 : Lift Station, Phase: A **Floor: Main** **Room #:** **Area (sqft): 0**

Survey Date: 2008-03-26 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Wood													
Duct	Not Found	NI													
Floor		Concrete (poured)													
Mechanical Equipment	Generator Unit	Not Insulated													
Piping	Generator Exhaust	Not Insulated													
Structure	Not Accessible	NI													
Wall		Wood													

No visual inspection or sampling was conducted at the exterior and roof. Exterior and roof sections needs to be tested prior to any renovation or demolition activities.

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 7 : Keewatin Underpass Lift Station**

Location: #2 : Exterior of Building, Phase: A **Floor: NA** **Room #:** **Area (sqft): 0**

Survey Date: 2008-03-26 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Soffit	Aluminum	Exterior	Paint	C	Y									
Wall	Exterior	Concrete (poured)	Base	N/A	A	Y									
Wall	Exterior	Masonry	Surface	N/A	A	Y									
Wall[1]	Exterior	Mortar	Exterior	Masonry	A	Y		100			%	V0000	Non-Asbestos		None
Wall	Exterior	Vermiculite/concrete block walls	ALL	Masonry	B	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)

No visual inspection or sampling was conducted at the roof. Roof sections needs to be tested prior to any renovation or demolition activities. Masonry block walls above and behind bricks may contain asbestos containing vermiculite. Grout (masonry mortar/cement/plaster) on cinder block wall confirmed non-asbestos July 2020 275519

1 - Mortar Sampled July 2020 - Non-asbestos 275519

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 8 : King Edward Lift Station**
Location: #1 : Lift Station, Phase: A **Floor: Main** **Room #:** **Area (sqft): 0**
Survey Date: 2008-03-26 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Abated Material	Surface	Paint	C	Y					S	V9000	[None]		[Abated]
Duct		Mastic, Red	Surface		B	Y		100			%	S0001	None Detected	N.D.	None
Duct	Not Found	NI													
Floor		Concrete (poured)													
Mechanical Equipment	Generator Unit	Not Insulated													
Piping	Generator Exhaust	Not Insulated													
Structure	Not Accessible	NI													
Wall		Vermiculite/concrete block walls	Insulation	Masonry	B	N		520			SF	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	Interior	Mortar	Surface	Masonry	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry													

Concrete block walls may contain vermiculite insulation, Roof Sections needs to be tested prior to any renovation or demolition activities. Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos.

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 8 : King Edward Lift Station**
Location: #2 : Exterior of Building, Phase: A **Floor: NA** **Room #:** **Area (sqft): 0**
Survey Date: 2008-03-26 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Soffit	Aluminum	Surface	Paint	C	Y									
Wall		Vermiculite/concrete block walls	ALL	Masonry	B	N		520			SF	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	All	Clay Tile (block)	Surface		A	Y									
Wall	Exterior	Mortar	Surface	Masonry	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)

No visual inspection or sampling was conducted at the roof. Roof sections needs to be tested prior to any renovation or demolition activities. Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

ALL DATA REPORT

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Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 10 : Manitoba Lift Station**
Location: #1 : Lift Station, Phase: A **Floor: Main** **Room #:** **Area (sqft): 0**
Survey Date: 2008-03-26 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Wood													
Duct	Not Found	NI													
Floor[1]	Debris	Vermiculite								5	SF	V9000	Confirmed Asbestos		Confirmed Asbestos(F)
Floor		Concrete (poured)													
Mechanical Equipment	Generator Unit	Not Insulated													
Piping	Generator Exhaust	Magnesia block	Straight	Metal	B	Y		3			LF	V0000	Non-Asbestos		None
Piping	Generator Exhaust	Abated Material	Fitting	Mastic, Silver	B	Y					EA	S0004	[None]	0.1-1%	[Abated]
Structure	Not Accessible	NI													
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall	All	Vermiculite	Not Applicable	Preformed Block	B	N		100			%	V9000	Confirmed Asbestos		Confirmed Asbestos(F)
Wall		Wood													

Verimicultes were found inside the damaged wall preformed block that was confirmed to be asbestos containing by the COWWWD. Remaining 3 old walls are assumed to have the same vermiculites inside the preformed block. Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos.
1 - Debris present along perimeter of wall

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 10 : Manitoba Lift Station**
Location: #2 : Exterior of Building, Phase: A **Floor: NA** **Room #:** **Area (sqft): 0**
Survey Date: 2008-03-26 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Soffit	Aluminum	Surface	Paint	C	Y									
Wall		Preformed Block		Quarry tile	B	N									
Wall		Quarry tile			A	Y									
Wall	All	Vermiculite/concrete block walls		Preformed Block	B	N		100			%	V9000	Confirmed Asbestos		Confirmed Asbestos(F)
Wall	Exterior	Mortar	Exterior	Masonry	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)

Vermiculite confirmed present by the COWWWD. 1 Wall was replaced - Remaining 3 walls suspect to contain Roof is wood, not suspect Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

ALL DATA REPORT

PINCHIN
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Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 102 : Mayfair Combined Station**
Location: #2 : Exterior of Building, Phase: A **Floor: NA** **Room #:** **Area (sqft): 0**
Survey Date: 2010-09-16 **Last Re-Assessment: 2021-07-13**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Wall	Exterior	Concrete (poured)	Base	Plaster	A	Y									
Wall	Exterior	Clay Tile (block)	Exterior	N/A	A	Y									
Wall	Exterior	Plaster	Base	N/A	A	Y		118	2		SF	S0001	None Detected	N.D.	None
Wall	Exterior	Quarry tile	Exterior	N/A	A	Y									
Wall	Exterior	Mortar	Exterior	Clay Tile (block)	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall	Exterior	Mortar	Exterior	Quarry tile	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall	Exterior	Caulking	Surface	N/A	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

No visual inspection or sampling was conducted at the roof. Roof sections needs to be tested prior to any renovation or demolition activities. Grout (masonry mortar/cement/plaster) on clay tiles is presumed asbestos containing.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

ALL DATA REPORT

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Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 12 : Metro Route 90 Lift Station**
Location: #1 : Lift Station, Phase: A **Floor: Main** **Room #:** **Area (sqft): 0**
Survey Date: 2008-03-26 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
		Mastic, Black													
Ceiling		Wood													
Duct	All	Abated Material	Surface		B	Y					%	V9000	[None]		[Abated]
Duct	Not Found	NI													
Floor		Concrete (poured)													
Mechanical Equipment	Generator Unit	Not Insulated													
Piping	Generator Exhaust	Magnesia block	Straight	Metal	B	Y		3			LF	V0000	Non-Asbestos		None
Piping	Generator Exhaust	Abated Material	Fitting	Mastic, Silver	B	Y					EA	V9000	[None]		[Abated]
Structure	Not Accessible	NI													
Wall	All	Vermiculite/concrete block walls	ALL	Masonry	B	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	Interior	Mortar	Surface	Masonry	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry													

Have black mastic in genset duct tested first before doing any reno works. As per client on July 12 2017 asbestos containing fitting on genset exhaust and mastic had been abated prior to installation of new genset. Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 12 : Metro Route 90 Lift Station**
Location: #2 : Exterior of Building, Phase: A **Floor: NA** **Room #:** **Area (sqft): 0**
Survey Date: 2008-03-26 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Soffit	Aluminum	Surface	Paint	C	Y									
Wall		Concrete (poured)	Surface	Plaster	A	Y									
Wall		Concrete (precast)	Surface		C	Y									
Wall		Clay Tile (block)	Surface		A	Y									
Wall		Plaster	Surface		A	Y		100			%	S0001	None Detected	N.D.	None
Wall[1]		Vermiculite/concrete block walls	Insulation	Masonry	B	N		99		1	%	V9000	Confirmed Asbestos		Confirmed Asbestos(F)
Wall	Exterior	Mortar	Surface	Masonry	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)

Cinder blocks suspect to contain vermiculites (test first before doing any renovation activities) No visual inspection or sampling was conducted at the roof. Roof sections needs to be tested prior to any renovation or demolition activities. Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.
1 - 1 SF of exposed vermiculite South wall

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 19 : Pulberry Lift Station**
Location: #1 : Lift Station, Phase: A **Floor: Main** **Room #:** **Area (sqft): 0**
Survey Date: 2008-03-25 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Wood													
Duct	All	Not Insulated													
Floor		Concrete (poured)													
Mechanical Equipment	All	Not Insulated													
Piping	Exhaust	Cement Product	System	N/A	B	Y		12			LF	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Structure	Not Accessible	NI													
Wall		Wood													

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 19 : Pulberry Lift Station**
Location: #2 : Exterior of Building, Phase: A **Floor: NA** **Room #:** **Area (sqft): 0**
Survey Date: 2008-03-25 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Soffit	Aluminum	Surface	Paint	C	Y									
Wall		Concrete (poured)	Surface	Plaster	A	Y									
Wall		Clay Tile (block)	Surface		A	Y									
Wall		Plaster	Surface	Paint	A	Y		94			SF	S0001	None Detected	N.D.	None
Wall		Plaster	Surface		A	Y		100			%	S0002	None Detected	N.D.	None
Wall	Exterior	Mortar	Surface	Clay Tile (block)	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)

Roof sections needs to be tested prior to any renovation or demolition activities. Grout (masonry mortar/cement/plaster) on clay tiles is presumed asbestos containing. S0002 completed 3 samples, S0001 1 sample only

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

ALL DATA REPORT

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Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 22 : St. Charles Lift Station**
Location: #1 : Lift Station, Phase: A **Floor: Main** **Room #:** **Area (sqft): 150**
Survey Date: 2008-03-26 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Wood													
Duct	Exhaust	Cement Product	All Pipe	N/A	B	Y		12			LF	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Floor		Concrete (poured)													
Mechanical Equipment	Not Found	NI	No Information	NI											
Piping	All	Not Insulated						800							
Structure	Not Accessible	NI						800							
Wall		Wood													

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 22 : St. Charles Lift Station**
Location: #2 : Exterior of Building, Phase: A **Floor: NA** **Room #:** **Area (sqft): 0**
Survey Date: 2008-03-26 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Soffit	Wood	Surface	Paint	C	Y									
Wall	All	Plaster	Surface	Paint	A	Y		390			SF	S0001	None Detected	N.D.	None

No visual inspection or sampling was conducted at the roof. Roof sections needs to be tested prior to any renovation or demolition activities. S0001 completed 3 samples

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

HMIS
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ALL DATA REPORT

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Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 51 : Syndicate Lift Station**
Location: #1 : Control Room, Phase: A **Floor: Main** **Room #:** **Area (sqft): 0**
Survey Date: 2009-09-11 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Concrete (precast)													
Duct	Supply Air	Tape	Joint		B	Y						V0000	Non-Asbestos		None
Duct	Supply Air	Not Insulated													
Floor	All	Concrete (poured)													
Mechanical Equipment	Not Found	None Found													
Piping	Not Found	None Found													
Structure	Not Found	None Found													
Wall		Clay Tile (block)													
Wall		Masonry													
Wall		Styrofoam													

Duct tape on joints No visual inspection or sampling was conducted at the exterior and roof. Exterior and roof sections needs to be tested prior to any renovation or demolition activities.

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 51 : Syndicate Lift Station**

Location: #2 : Comminuter Chamber Access Room, Phase: A **Floor: Basement Level 3** **Room #:** **Area (sqft): 0**

Survey Date: 2009-09-11 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Concrete (poured)													
Duct	Supply Air	Tape	Joint		B	Y						V0000	Non-Asbestos		None
Duct	Supply Air	Not Insulated													
Floor	All	Concrete (poured)													
Mechanical Equipment	Not Found	None Found													
Piping	Not Found	None Found													
Structure	All	Concrete (poured)													
Wall		Concrete (poured)													
Wall		Styrofoam													

Duct tape on joints

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 51 : Syndicate Lift Station**
Location: #3 : Cham Room, Phase: A **Floor: Basement Level 2** **Room #:** **Area (sqft): 0**
Survey Date: 2009-09-11 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Concrete (poured)													
Duct	Supply Air	Not Insulated													
Floor	All	Concrete (poured)													
Mechanical Equipment	Not Found	None Found													
Piping	All	Not Insulated		Paint											
Structure	All	Concrete (poured)													
Wall	All	Concrete (poured)													

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 51 : Syndicate Lift Station**
Location: #4 : Pump Room, Phase: A **Floor: Basement Level 1** **Room #:** **Area (sqft): 0**
Survey Date: 2009-09-11 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Concrete (poured)													
Duct	Supply Air	Tape										V0000	Non-Asbestos		None
Duct	Supply Air	Not Insulated													
Floor	All	Concrete (poured)													
Mechanical Equipment	Motor	Not Insulated		Paint											
Piping	All	Not Insulated		Paint											
Structure	Not Found	None Found													
Wall	All	Concrete (poured)													

Duct tape on end

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 51 : Syndicate Lift Station**
Location: #5 : Exterior of Building, Phase: A **Floor: NA** **Room #:** **Area (sqft): 0**
Survey Date: 2009-09-11 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Wall	All	Clay Tile (block)	Exterior	Paint	A	Y									
Wall	Base	Concrete (poured)	Exterior	Paint	A	Y									
Wall	Exterior	Mortar	Exterior	Clay Tile (block)	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)

Roof sections needs to be tested prior to any renovation or demolition activities. Grout (masonry mortar/cement/plaster) on clay tiles is presumed asbestos containing.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

ALL DATA REPORT

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Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 23 : Tuxedo Lift Station**
Location: #1 : Lift Station, Phase: A **Floor: Main** **Room #:** **Area (sqft): 600**
Survey Date: 2008-03-26 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Abated Material	Surface	Paint	C	Y					SF	V9500	[None]		[Abated]
Duct	All	Not Insulated													
Floor		Concrete (poured)													
Mechanical Equipment	All	Not Insulated													
Piping	All	Not Insulated													
Structure	Steel Truss	Wood													
Wall	All	Vermiculite/concrete block walls	ALL	Masonry	B	N		500			SF	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	Interior	Mortar	Surface	Masonry	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry													
Wall		Cement Product	Surface	Paint	A	Y		200			SF	V9000	Confirmed Asbestos		Confirmed Asbestos(NF)

Masonry block walls suspect to contain asbestos containing vermiculite. Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 23 : Tuxedo Lift Station**
Location: #2 : Exterior of Building, Phase: A **Floor: NA** **Room #:** **Area (sqft): 0**
Survey Date: 2008-03-26 **Last Re-Assessment: 2021-07-13**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Soffit	Aluminum	Exterior	Paint	C	Y									
Wall		Clay Tile (block)	Exterior		A	Y									
Wall		Plaster	Exterior	Paint	A	Y		140			SF	S0001	None Detected	N.D.	None
Wall		Vermiculite/concrete block walls	Exterior	Clay Tile (block)	B	N		500			SF	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	Exterior	Mortar	Exterior	Clay Tile (block)	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)

No visual inspection or sampling was conducted at the roof. Roof sections needs to be tested prior to any renovation or demolition activities. Masonry block walls suspect to contain asbestos containing vermiculite. S0001 completed 3. Grout (masonry mortar/cement/plaster) on clay tiles is presumed asbestos containing.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 62 : Tylehurst Lift Station**
Location: #1 : Control Room, Phase: A **Floor: Main Floor** **Room #:** **Area (sqft): 0**
Survey Date: 2010-05-04 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Styrofoam	Surface	Paint	C	Y									
Duct	Supply Air	Steel	System	Not Insulated	B	Y									
Floor		Wood	Surface	Paint	B	Y									
Floor	All	Concrete (poured)	Surface	Paint	B	Y									
Mechanical Equipment	Fan Unit	Steel	System	Not Insulated	B	Y									
Piping	Rain Water Leader	Steel	All Pipe	Not Insulated	B	Y									
Structure	All	Steel	Surface	Paint	C	Y									
Wall		Wood	Surface	Paint	B	Y									
Wall	All	Styrofoam	Surface	Paint	B	Y									

No visual inspection or sampling was conducted at the exterior and roof. Exterior and roof sections needs to be tested prior to any renovation or demolition activities.

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 62 : Tylehurst Lift Station**
Location: #2 : Comminuter Room Drywell, Phase: A **Floor: Basement Level 3** **Room #:** **Area (sqft): 0**
Survey Date: 2010-05-04 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Concrete (poured)		Styrofoam	C	Y									
Ceiling	All	Styrofoam	Surface	Styrofoam	C	Y									
Duct	Supply Air	Steel	System	Not Insulated	B	Y									
Floor	All	Steel	Surface	Paint	B	Y									
Floor	All	Concrete (poured)	Surface	Paint	B	Y									
Mechanical Equipment	Not Found	None Found													
Piping	Rain Water Leader	Polyvinyl chloride (PVC)	All Pipe	Not Insulated	B	Y									
Structure	All	Concrete (poured)	Surface	Paint	C	Y									
Wall		Wood	Surface	Paint	B	Y									
Wall	All	Concrete (poured)	Surface	Styrofoam	B	Y									
Wall	All	Styrofoam	Surface	Wood	B	Y									

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 62 : Tylehurst Lift Station**
Location: #3 : Cham Room, Phase: A **Floor: Basement Level 2** **Room #:** **Area (sqft): 0**
Survey Date: 2010-05-04 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Concrete (poured)	Surface	Paint	C	Y									
Duct	All	Dirt	System	Not Insulated	B	Y									
Floor	All	Concrete (poured)	Surface	Paint	B	Y									
Mechanical Equipment	Motor Generator	Steel	System	Not Insulated	B	Y									
Piping	Domestic Water (Hot and Cold)	Polyvinyl chloride (PVC)	All Pipe	Not Insulated	B	Y									
Structure	All	Concrete (poured)	Surface	Paint	C	Y									
Wall	All	Concrete (poured)	Surface	Paint	B	Y									

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 62 : Tylehurst Lift Station**
Location: #4 : Motor Room, Phase: A **Floor: Basement Level 2** **Room #:** **Area (sqft): 0**
Survey Date: 2010-05-04 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Concrete (poured)	Surface	Paint	C	Y									
Duct	Supply Air	Steel	System	Not Insulated	B	Y									
Floor		Wood	Surface	Paint	B	Y									
Floor	All	Concrete (poured)	Surface	Paint	B	Y									
Mechanical Equipment	Motor	Steel	System	Not Insulated	B	Y									
Piping	Domestic Water (Hot and Cold)	Polyvinyl chloride (PVC)	All Pipe	Not Insulated	B	Y									
Piping	Rain Water Leader	Steel	All Pipe	Not Insulated	B	Y									
Structure	All	Concrete (poured)	Surface	Paint	C	Y									
Wall		Styrofoam	Surface	Styrofoam	B	Y									
Wall	All	Concrete (poured)	Surface	Paint	B	Y									

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 62 : Tylehurst Lift Station**
Location: #5 : Pump Room, Phase: A **Floor: Basement Level 1** **Room #:** **Area (sqft): 0**
Survey Date: 2010-05-04 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Concrete (poured)	Surface	Paint	C	Y									
Duct	Supply Air	Steel	System	Not Insulated	B	Y									
Floor	All	Concrete (poured)	Surface	Paint	B	Y									
Mechanical Equipment	Motor Generator	Steel	System	Not Insulated	B	Y									
Piping	Rain Water Leader	Steel	All Pipe	Not Insulated	B	Y									
Piping	Rain Water Leader	Polyvinyl chloride (PVC)	All Pipe	Not Insulated	B	Y									
Structure	All	Concrete (poured)	Surface	Paint	C	Y									
Wall	All	Concrete (poured)	Surface	Paint	B	Y									

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 62 : Tylehurst Lift Station**
Location: #6 : Exterior of Building, Phase: A **Floor: NA** **Room #:** **Area (sqft): 0**
Survey Date: 2010-05-04 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Structure	Exterior	Concrete (poured)	Base	Paint	A	Y									
Wall	All	Clay Tile (block)	Exterior	Paint	A	Y		180			SF				
Wall	All	Mortar, Non-asbestos Sample 0005A-C Lab ID R6725892 July 2021 289439	Exterior		A	Y		100			%	V0000	Non-Asbestos		None

Roof sections needs to be tested prior to any renovation or demolition activities.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 24 : Westwood Lift Stations**
Location: #1 : Lift Station, Phase: A **Floor: Main** **Room #:** **Area (sqft): 0**
Survey Date: 2008-03-28 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Wood													
Duct	All	Not Insulated													
Floor		Concrete (poured)													
Mechanical Equipment	All	Not Insulated													
Piping	Exhaust	Abated Material	System	N/A	A	Y					LF	V9500	[None]		[Abated]
Structure	Not Accessible	NI													
Wall		Concrete (poured)													
Wall		Concrete (poured)													

No visual inspection or sampling was conducted at the exterior and roof. Exterior and roof sections needs to be tested prior to any renovation or demolition activities.

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 24 : Westwood Lift Stations**
Location: #2 : Wet Well, Phase: A **Floor: Main** **Room #:** **Area (sqft): 0**
Survey Date: 2008-03-28 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Wood													
Duct	All	Not Insulated													
Floor		Concrete (poured)													
Mechanical Equipment	All	Not Insulated													
Piping	Exhaust	Abated Material	System	N/A	A	Y					LF	V9500	[None]		[Abated]
Structure	Not Accessible	NI													
Wall		Concrete (poured)													
Wall		Concrete (poured)													

No visual inspection or sampling was conducted at the exterior and roof. Exterior and roof sections needs to be tested prior to any renovation or demolition activities.

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 24 : Westwood Lift Stations**
Location: #3 : Lift Station Pump Room, Phase: A **Floor: Basement Level 1** **Room #:** **Area (sqft): 0**
Survey Date: 2008-03-28 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Concrete (poured)													
Duct	Exhaust	Abated Material	System	Paint	C	Y					LF	V9500	[None]		[Abated]
Floor	All	Concrete (poured)													
Mechanical Equipment	Not Found	None Found													
Piping	All	Not Insulated													
Structure	Not Found	None Found													
Wall	All	Concrete (poured)													

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 24 : Westwood Lift Stations**
Location: #4 : Motor Room, Phase: A **Floor: Basement Level 3** **Room #:** **Area (sqft): 0**
Survey Date: 2008-03-28 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Concrete (poured)													
Duct	Exhaust	Abated Material	System	Paint	C	Y					LF	V9500	[None]		[Abated]
Floor	All	Concrete (poured)													
Mechanical Equipment	Motor	Not Insulated													
Piping	All	Not Insulated													
Structure	Not Found	None Found													
Wall	All	Concrete (poured)													

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 24 : Westwood Lift Stations**
Location: #5 : Exterior of Building, Phase: A **Floor: NA** **Room #:** **Area (sqft): 0**
Survey Date: 2008-03-28 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	None Found	Not Applicable	N/A	NA	NA									
Duct	Exterior	Steel	No Information	None Found	C	Y									
Floor	Not Found	None Found	Not Applicable	N/A	NA	NA									
Mechanical Equipment	Not Found	None Found	Not Applicable	N/A	NA	NA									
Other	Exterior	Caulking, Confirmed asbestos July 2020 275519	Surface		A	Y		100			%	V9000	Confirmed Asbestos		Confirmed Asbestos(NF)
Piping	Not Found	None Found	Not Applicable	N/A	NA	NA									
Structure	Exterior	Concrete (poured)	Exterior	N/A	B	N									
Wall	Exterior	Concrete (poured)	Exterior	N/A	A	Y									
Wall	Exterior	Clay Tile (block)	Exterior	N/A	A	Y									
Wall	Exterior	Mortar	Surface		A	Y		100			%	V0000	Non-Asbestos		None

Built - 2001 Roof Not suspect to contain asbestos Grout (masonry mortar/cement/plaster) on clay tiles confirmed non-asbestos July 2020 275519. Caulking confirmed asbestos-containing July 2020 - 275519

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

ALL DATA REPORT

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Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 63 : Wexford Lift Station**
Location: #1 : Control Room, Phase: A **Floor: Main Floor** **Room #:** **Area (sqft): 0**
Survey Date: 2010-05-04 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Steel	Surface		C	Y									
Ceiling	All	Drywall (no compound)	Surface	Paint	C	Y									
Duct	Return Air	Cement Product	Straight	Paint	B	Y		6			LF	V9000	Confirmed Asbestos		Confirmed Asbestos(NF)
Duct	Supply Air	Steel	System	Not Insulated	B	Y									
Floor		Steel	Surface	Paint	B	Y									
Floor	All	Concrete (poured)	Surface	Paint	B	Y									
Mechanical Equipment	Fan Unit	Steel	System	Not Insulated	B	Y									
Piping	Not Found	None Found													
Structure	All	Steel	Surface	Paint	C	Y									
Wall	All	Clay Tile (block)	Surface		B	Y									
Wall	All	Masonry	Surface	Paint	B	Y									
Wall	All	Vermiculite/concrete block walls	ALL	Masonry	B	N		400			SF	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	Interior	Mortar	Surface	Masonry	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)

Masonry block walls suspect to contain asbestos containing vermiculite. Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 63 : Wexford Lift Station**
Location: #2 : Comminuter Dry Well, Phase: A **Floor: Basement Level 1** **Room #:** **Area (sqft): 0**
Survey Date: 2010-05-04 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Concrete (poured)	Surface		C	Y									
Duct	Not Found	None Found													
Floor	All	Concrete (poured)	Surface		B	Y									
Mechanical Equipment	Motor Generator	Steel	System	Not Insulated	B	Y									
Piping	Rain Water Leader	Steel	All Pipe	Not Insulated	B	Y									
Structure	All	Concrete (poured)	Surface		C	Y									
Wall	All	Concrete (poured)	Surface		B	Y									

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 63 : Wexford Lift Station**
Location: #3 : Pump/Motor Room, Phase: A **Floor: Basement Level 1** **Room #:** **Area (sqft): 0**
Survey Date: 2010-05-04 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Concrete (poured)	Surface		C	Y									
Duct	Supply Air	Steel	System	Not Insulated	B	Y									
Floor	All	Concrete (poured)	Surface		B	Y									
Mechanical Equipment	Motor Generator	Steel	System	Not Insulated	B	Y									
Piping	Rain Water Leader	Steel	All Pipe	Not Insulated	B	Y									
Structure	All	Steel	Surface	Paint	C	Y									
Wall	All	Concrete (poured)	Surface		B	Y									

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 63 : Wexford Lift Station**
Location: #4 : Exterior of Building, Phase: A **Floor: NA** **Room #:** **Area (sqft): 0**
Survey Date: 2010-05-04 **Last Re-Assessment: 2021-07-13**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Soffit	Aluminum	Surface	Paint	C	Y									
Wall		Clay Tile (block)	Surface		A	Y									
Wall		Plaster	Base		A	Y		100			%	S0001	None Detected	N.D.	None
Wall	Exterior	Mortar	Exterior	Clay Tile (block)	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall	Exterior	Vermiculite/concrete block walls	Exterior	Clay Tile (block)	B	N		400			SF	V9500	Presumed Asbestos		Presumed Asbestos(F)

No visual inspection or sampling was conducted at the roof. Roof sections needs to be tested prior to any renovation or demolition activities. Masonry block walls suspect to contain asbestos containing vermiculite. Grout (masonry mortar/cement/plaster) on clay tile is presumed asbestos containing.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

ALL DATA REPORT

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Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 55 : Willow Lift Station**
Location: #1 : Control Room, Phase: A **Floor: Main Floor** **Room #:** **Area (sqft): 0**
Survey Date: 2010-05-03 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Steel	Surface	Styrofoam	C	Y									
Ceiling	All	Styrofoam	Surface	Styrofoam	C	Y									
Duct	Supply Air	Steel	System	Not Insulated	B	Y									
Floor		Steel	Surface	Paint	B	Y									
Floor	All	Concrete (poured)	Surface	Paint	B	Y									
Mechanical Equipment	Motor	Steel	System	Not Insulated	B	Y									
Piping	All	Polyvinyl chloride (PVC)	All Pipe	Not Insulated	B	Y									
Structure		Steel	Straight	Paint	C	Y									
Wall	All	Wood	Surface	Paint	B	Y									
Wall	All	Masonry	Surface	Styrofoam	B	Y									
Wall	All	Styrofoam	Surface	Wood	B	Y									

No visual inspection or sampling was conducted at the exterior and roof. Exterior and roof sections needs to be tested prior to any renovation or demolition activities.

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 55 : Willow Lift Station**
Location: #2 : Motor Room, Phase: A **Floor: Basement Level 2** **Room #:** **Area (sqft): 0**
Survey Date: 2010-05-03 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Concrete (poured)	Surface	Styrofoam	C	Y									
Duct	Supply Air	Steel	System	Not Insulated	B	Y									
Floor	All	Concrete (poured)	Surface	Paint	B	Y									
Mechanical Equipment	Motor	Steel	System	Not Insulated	B	Y									
Piping	All	Steel	All Pipe	Not Insulated	B	Y									
Structure	Column	Concrete (poured)	Surface	Paint	C	Y									
Wall	All	Concrete (poured)	Surface	Styrofoam	B	Y									

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 55 : Willow Lift Station**
Location: #3 : Pump Room, Phase: A **Floor: Basement Level 1** **Room #:** **Area (sqft): 0**
Survey Date: 2010-05-03 **Last Re-Assessment: 2021-07-13**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Concrete (poured)	Surface	Paint	C	Y									
Duct	Supply Air	Steel	System	Not Insulated	B	Y									
Floor	All	Concrete (poured)	Surface	Paint	B	Y									
Mechanical Equipment	Motor Generator	Steel	System	Not Insulated	B	Y									
Piping	All	Not Insulated	All Pipe	Paint	B	Y									
Structure	Column	Concrete (poured)	Surface	Paint	C	Y									
Wall	All	Concrete (poured)	Surface	Paint	B	Y									

Client: City of Winnipeg Water and Waste Dept **Site: Lift Stations** **Building Name: 55 : Willow Lift Station**
Location: #4 : Exterior of Building, Phase: A **Floor: NA** **Room #:** **Area (sqft): 0**
Survey Date: 2010-05-03 **Last Re-Assessment: 2021-07-13**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Soffit	Wood	Exterior	Paint	C	Y									
Ceiling	Soffit	Aluminum	Exterior	N/A	C	Y									
Wall	Exterior	Concrete (poured)	Base	N/A	A	Y									
Wall	Exterior	Concrete (precast)	Surface	N/A	A	Y									
Wall	Exterior	Plaster	Base	Paint	A	Y		100			%	S0001	None Detected	N.D.	None
Wall	Exterior	Caulking	Surface		A	Y		100			%	S0002	Chrysotile	1-5%	Confirmed Asbestos(NF)

No visual inspection or sampling was conducted at the roof. Roof sections needs to be tested prior to any renovation or demolition activities.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

FINAL

Asbestos Reassessment

West End Water Pollution Control Centre
7740 Wilkes Avenue,
Winnipeg, Manitoba

Prepared for:

City of Winnipeg Water and Waste Department
110 – 1199 Pacific Avenue
Winnipeg, Manitoba R3E 3S8

October 14, 2021

Pinchin File: 289439

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EXECUTIVE SUMMARY

City of Winnipeg Water and Waste Department (Client) retained Pinchin Ltd. (Pinchin) to conduct an asbestos building materials reassessment of the West End Water Pollution Control Centre located at 7740 Wilkes Avenue, Winnipeg, Manitoba. The reassessment was performed on June 28, 2021.

The objective of the reassessment was to evaluate the condition and quantity of previously reported asbestos-containing materials (ACM), and develop corrective action plans as required for the purposes of long-term management. The results of this assessment are not intended for construction, renovation, demolition, or project tendering purposes.

The reassessment was based on information gathered from previous comprehensive assessment report completed by Pinchin. The original assessment report for the West End Water Pollution Control Centre Lagoon Chamber was dated July 23, 2008. The results of the original report and subsequent survey update reports were reviewed prior to completing the reassessment.

The reassessed area was limited to parts of the buildings where the original report had indicated asbestos-containing materials (ACMs) were present. Rooms where no ACMs were reported were not inspected.

HMIS data has been updated online.

SUMMARY OF FINDINGS

Asbestos-containing materials (ACM) are present as follows:

- Asbestos-containing transite duct is present within the Lagoon Control Chamber (Location Nos. 1 & 2). Transite is non-friable and is in GOOD condition.
- Plaster present on the exterior of the Lagoon Chamber Building is presumed to contain asbestos. It is potentially friable and is in GOOD condition.
- Loose fill vermiculite was not observed within the assessed areas; however, demolition of masonry block walls was not performed, and vermiculite may be present within these cavities.
- Mortar on masonry walls of the Lagoon Control Chamber is presumed to contain asbestos. Mortar is potentially friable and is in GOOD condition; and
- Built-up roofing materials are presumed to contain asbestos.

SUMMARY OF RECOMMENDATIONS

The following is a summary of significant recommendations; refer to the body of the report for detailed recommendations:

1. Perform a reassessment of asbestos materials on an annual basis;
2. Prior to renovations or demolition, perform a pre-construction assessment to identify any hazardous materials that may be disturbed by the work; and
3. Follow appropriate safe work procedures when handling or disturbing asbestos.

This Executive Summary is subject to the same standard limitations as contained in the report and must be read in conjunction with the entire report.

TABLE OF CONTENTS

APPENDICES

1.0 INTRODUCTION AND SCOPE

City of Winnipeg Water and Waste Department (Client) retained Pinchin Ltd. (Pinchin) to conduct an asbestos building materials reassessment of the West End Water Pollution Control Centre located at 7740 Wilkes Avenue, Winnipeg, Manitoba.

Pinchin performed the reassessment on June 28, 2021. The surveyor was accompanied by City of Winnipeg Water and Waste Representative during the reassessment. The assessed area was occupied at the time of the assessment.

The objectives of the reassessment were to document the locations, quantities and conditions of previously identified asbestos containing building materials and develop corrective action plans as required. This reassessment is only to be used for the purposes of long-term management and routine maintenance. The results of this reassessment are not to be used for construction, renovation, demolition or project tendering purposes.

1.1 Scope of Assessment

The objective of the reassessment was to evaluate the condition and quantity of previously reported asbestos-containing materials (ACM), and develop corrective action plans as required.

Additional objectives included the following:

- Documentation of any asbestos abatement that was performed since the last reassessment.

Please refer to Appendix I for a detailed description of the methodology used for this assessment.

2.0 METHODOLOGY

Pinchin conducted an inspection of previously identified asbestos-containing materials (ACM) to evaluate the current condition of all accessible identified in the most recent assessment. The surveyor made reference to any existing assessment or abatement reports (as provided by the Client).

As per the original scope of work, concealed locations such as ceiling spaces above solid ceilings, shafts and chases were accessed via existing access panels. Our investigation did not include demolition of drywall or plaster walls to view concealed conditions. Structural items or exterior building finishes were not removed to determine the presence of concealed materials.

For further details on the methodology including test methods, refer to Appendix I.

3.0 BACKGROUND INFORMATION

3.1 Existing Reports and Summary of Asbestos Abatement

3.1.1 Review of Previous Reports

The reassessment was based on information gathered from previous comprehensive assessment report completed by Pinchin. The original assessment report for the West End Water Pollution Control Centre Lagoon Chamber was dated July 23, 2008. The results of the original report and subsequent survey update reports were reviewed prior to completing the reassessment.

3.1.2 Summary of Asbestos Abatement since the Previous Assessment

Based on a review of the above noted abatement reports, and observations made during the reassessment, asbestos abatement has not been conducted since the last assessment.

3.2 Inaccessible Locations

The following rooms or areas of the building were not accessible to the surveyor and are therefore not included in the report:

Area or Room	Reason
Basement Floor, Lagoon Control Chamber (Location No. 2)	Not accessible due to safety reasons

4.0 FINDINGS

The following section summarizes the findings of the reassessment and provides a general description of the asbestos-containing materials (ACM) identified and their locations.

For details on approximate quantities, condition, friability and locations of asbestos materials; refer to the Asbestos Material Summary Report and HMIS Data Report in Appendix III and IV.

4.1 Vermiculite

Loose fill vermiculite was not observed within the assessed areas, however; demolition of masonry block walls was not performed and vermiculite may be present within these cavities. Hollow core walls are present throughout the Lagoon Control Chamber Building (Location No.'s. 1, 2 & 3).

4.2 Plaster and Stucco

Plaster present on the exterior of the Lagoon Chamber Building is presumed to contain asbestos. It is potentially friable and is in GOOD condition.

4.3 Asbestos Cement Products (Transite)

Asbestos cement duct is present in the Main Floor (Location No. 1) and Basement Floor (Location No. 2) in the Lagoon Control Chamber. Asbestos cement is a non-friable material which was in GOOD condition.

4.4 Roofing Products

No visual inspection or sampling was conducted at this location. The roofing products are presumed to contain asbestos. Destructive testing will be required prior to any renovation or demolition activities.

4.5 Other Building Materials

Mortar present on masonry walls of the Lagoon Control Chamber is presumed to contain asbestos. Mortar is potentially friable and is in GOOD condition.

4.6 Excluded Asbestos Materials

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

- Roofing felts and tar, mastics;
- Floor levelling compound;
- Ceramic tile setting compound;
- Elevator and lift brakes;;
- Electrical components
- Moulded plastic components (laboratory bench tops);
- Refractory materials and insulations in boilers, incinerators and stacks;
- Insulation under metal clad boilers and vessels;
- Mechanical packing, ropes and gaskets;
- Vermiculite;
- Adhesives and duct mastics;
- Caulking and putties;;
- Fibre-reinforced paints and coatings
- Paper products;;
- Soffit and fascia boards;
- Fire resistant doors;
- Metal clad finishes (Galbestos);

- Stucco, plaster or other cementitious parge coatings;
- Vibration dampers on HVAC equipment;
- Terrazzo;
- Ropes and gaskets in cast-iron bell and spigot joints; and
- Sealants on pipe threads.

5.0 RECOMMENDATIONS

5.1 General

Perform a detailed intrusive assessment prior to building renovation or demolition operations. The assessment should include; destructive testing (e.g. coring and/or removal of building finishes and components), sampling of other hazardous materials (lead, mercury, PCBs, mould, etc.), and materials not tested in this study (e.g. roofing materials, caulking, mastics).

5.2 On-going Management and Maintenance

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

Perform a reassessment of asbestos materials on an annual basis.

Monitor the condition of asbestos by conducting a reassessment on a regular basis.

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

Update the asbestos inventory report for the building upon completion of any abatement of ACM.

6.0 TERMS AND LIMITATIONS

This work was performed subject to the Terms and Limitations presented or referenced in the proposal for this project.

Information provided by Pinchin is intended for Client use only. Pinchin will not provide results or information to any party unless disclosure by Pinchin is required by law. Any use by a third party of reports or documents authored by Pinchin or any reliance by a third party on or decisions made by a third party based on the findings described in said documents, is the sole responsibility of such third parties. Pinchin accepts no responsibility for damages suffered by any third party as a result of decisions made or actions conducted. No other warranties are implied or expressed.

7.0 REFERENCES

The following legislation and documents were referenced in completing the assessment and this report:

1. Workplace Safety and Health Act W210.
2. Workplace Safety and Health Hazard Regulation (Manitoba Regulation 217/2006), under the Workplace Safety and Health Act.
3. Manitoba Regulation MR 474/88, Manitoba PCB Regulation made under The Dangerous Goods Act.
4. Guide for Asbestos Management – Safe Work Manitoba.
5. Guideline Managing Demolition Debris Containing Hazardous Materials – Environmental Enforcement and Compliance Branch – Manitoba Conservation and Climate
6. Canada Occupational Health and Safety Regulation, SOR/86-304.
7. Consolidated Transportation of Dangerous Goods Regulations, including Amendment SOR/2019-101, Transportation of Dangerous Goods Act.

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Template: Master Report for Asbestos Reassessment, HAZ, July 29, 2021

APPENDIX I

Methodology

1.0 METHODOLOGY

Pinchin conducts an inspection of previously identified asbestos-containing materials (ACM) to evaluate the current condition of all accessible identified in the most recent assessment. The surveyor makes reference to any existing assessment or abatement reports (as provided by the Client).

1.1 Limitations on Scope

The re-assessment excludes the following:

- Articles belonging to the owner, tenant or occupant (e.g. stored items, furniture, appliances, etc.);
- Underground materials or equipment (e.g. vessels, drums, underground storage tanks, pipes, etc.);
- Building envelope, structural components, inaccessible or concealed materials or other items where sampling may cause consequential damage to the property;
- Energized systems (e.g. internal boiler components, elevators, mechanical or electrical components);
- Controlled products (e.g. stored chemicals, operational or process-related substances); and
- Materials not typically associated with construction (e.g. settled dust, spills, residual contamination from prior spills, etc.).

As per the original scope of work, concealed locations such as ceiling spaces above solid ceilings, shafts and chases are accessed via existing access panels. Our investigation does not include demolition of drywall or plaster walls to view concealed conditions. Structural items or exterior building finishes are not removed to determine the presence of concealed materials.

1.2 Methodology

Existing sampling data is reviewed and relied upon. If sampling is conducted, samples are collected at a rate that is in compliance with the requirements of local regulations and guidelines. The sampling strategy is also based on known ban dates and phase out dates of the use of asbestos; sampling of certain building materials is not conducted after specific construction dates. In addition, to be conservative, several years past these dates are added to account for some uncertainty in the exact start / finish date of construction and associated usage of ACM.

Materials listed as exclusions in the previous reports remain as exclusions. Sampling, assessment or verification of excluded materials was not conducted.

If present, the following materials are presumed to be asbestos-containing and are best sampled immediately prior to commencing renovation/disturbance:

- Roofing felts and tar, mastics;
- Floor levelling compound;
- Ceramic tile setting compound;
- Elevator and lift brakes;
- Electrical components or wiring within control centers, breakers, motors or lights, insulation on wiring;
- Moulded plastic components (laboratory bench tops);
- Refractory materials and insulations in boilers, incinerators and stacks;
- Insulation under metal clad boilers and vessels;
- Mechanical packing, ropes and gaskets;
- Vermiculite;
- Adhesives and duct mastics;
- Caulking and putties;
- Fibre-reinforced paints and coatings;
- Paper products;
- Soffit and fascia boards;
- Fire resistant doors;
- Metal clad finishes;
- Exterior cladding;
- Stucco, plaster or other cementitious parge coatings; and
- Vibration dampers on HVAC equipment.

2.0 ANALYSIS AND IDENTIFICATION OF ASBESTOS MATERIALS

Pinchin relies on the analytical results of prior surveys. Asbestos bulk samples (if required) are analyzed at an independent NVLAP accredited laboratory. Preliminary identification of asbestos fibres is made using polarized light microscopy, with confirmation of the presence and type of asbestos made by dispersion staining optical microscopy. The analysis is performed in accordance with Test Method EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials, June 1993. All independent laboratories used by Pinchin, including our laboratory, are certified under the National Voluntary Laboratory Accreditation Program (NVLAP) to perform asbestos analysis of bulk samples.

Analytical results are compared to the following criteria.

Jurisdiction	Friable	Non-Friable
Manitoba	0.1%[1]	1%
Federal	1%	1%

The asbestos analysis is completed using a stop positive approach. Only one result meeting the above regulated criteria is required to determine that a material is asbestos-containing, but all samples must be analyzed to conclusively determine that a material is non-asbestos. The laboratory stops analyzing samples from a homogeneous material once a result equal to or greater than the regulated criteria is detected in any of the samples of that material. All samples of a homogeneous material are analyzed if no asbestos is detected. In some cases, all samples are analyzed in the sample set regardless of result.

Where building materials are described in the report as “non-asbestos” or “does not contain asbestos”, this means that either no asbestos was detected by the analytical method utilized in any of the multiple samples or, if detected, it is below the lower limit of an asbestos-containing material in the applicable regulation.

Asbestos materials are evaluated in order to make recommendations regarding remedial work. The priority for remedial action is based on several factors:

- Friability (friable or non-friable);
- Condition (good, fair, poor, debris);
- Accessibility (ranking from accessible to all building users to inaccessible);
- Visibility (whether the material is obscured by other building components); and
- Efficiency of the work (for example, if damaged ACM is being removed in an area, it may be most practical to remove all ACM in the area even if it is in good condition).

For a complete description of the Evaluation Criteria and Basis of Recommendations, refer to Annex A.

Template: Methodology for Asbestos Re-Assessment, HAZ, January 10, 2020

METHODOLOGY ANNEX A EVALUATION CRITERIA

1.0 EVALUATION CRITERIA AND BASIS OF RECOMMENDATIONS

The detailed asbestos assessment provides information regarding the location, condition, accessibility and friability of the asbestos-containing materials (ACM). In order to make recommendations for compliance with current regulations, Pinchin developed the following criteria.

2.0 EVALUATION OF CONDITION

2.1 Friable Sprayed or Trowelled Fireproofing, Thermal Insulation and Texture Finishes (Surfacing Materials)

To evaluate the condition of ACM sprayed or trowelled on fireproofing, sprayed or trowelled thermal insulation (non-mechanical), or texture, decorative or acoustic finishes, the following criteria are applied:

Good	Surface of material shows no significant signs of damage, deterioration or delamination. Good condition includes unencapsulated or unpainted fireproofing or texture finishes, where no or limited delamination or damage is observed, or encapsulated fireproofing or texture finishes where the encapsulant or paint has been applied after the damage or fallout occurred.
Poor	A sprayed material that shows signs of significant damage or is significantly delaminating or deteriorating. This may be limited to surface delamination or some portion of the substrate may be exposed.

In Locations where damage exists in isolated areas, both good and poor condition may be applicable. The extent of each condition will be recorded. Fair condition is not utilized in the evaluation of ACM sprayed or trowelled fireproofing, sprayed or trowelled thermal insulation (non-mechanical), or texture, decorative or acoustic finishes.

The evaluation of the above products above ceilings may be limited by the number of observations and by building components such as ducts or full height walls that obstruct the above ceiling observations.

2.2 Friable Mechanical or Thermal System Insulation (TSI)

To evaluate the condition of mechanical insulation on vessels, boilers, breeching, ducts, pipes, fan units, equipment etc. the following criteria are applied:

Good	Insulation is completely covered in jacketing and exhibits no evidence of damage or deterioration. No insulation is exposed. Includes conditions where the jacketing has minor damage (i.e. scuffs or stains), but the jacketing is not penetrated.
Fair	Minor penetrating damage to jacketed insulation (cuts, tears, nicks, deterioration or delamination) or undamaged insulation that has never been jacketed. Insulation is exposed but not showing surface disintegration. The extent of missing insulation ranges from minor to none. Damage can be repaired.
Poor	Original insulation jacket is missing, damaged, deteriorated or delaminated. Insulation is exposed and significant areas have been dislodged. Damage cannot be readily repaired. Includes components where insulation may have been removed incompletely.

The evaluation of mechanical insulation may be limited by the number of observations made and building components such as ducts or full height walls that obstruct observations. It is often not possible to observe each foot of mechanical insulation from all angles.

2.3 Potentially Friable Materials and Miscellaneous Friable Materials

Potentially friable ACM are products that are basically non-friable while in place but have the potential to generate friable dust upon removal or if significantly disturbed without appropriate procedures. These products may become friable if damaged. Potentially friable materials include materials such as acoustic ceiling tiles and plaster. To evaluate the condition of potentially friable materials, the following criteria are applied:

Good	No significant damage or deterioration. Still serving its intended use as a building material or finish.
Fair	Showing signs of some cracking or breakage, but is not deteriorating (e.g. cracked plaster, broken but in place ceiling tile, missing tile or section of plaster etc.). The condition is such that it is still serving its intended use as a building material or finish but may require repair for mainly cosmetic purposes.
Poor	Significant deterioration or breaking apart of the material. Material has deteriorated to the point it is not serving its intended use as building material or finish. Material has deteriorated to a point it has become friable. Normally potentially friable ACM in Poor condition is not repairable and requires at least localized removal and replacement.

2.4 Non-Friable Materials

Non-friable ACM cover a wide range of products with a wide variation in their tendency to release dust or asbestos fibres to the air. Many of these materials, (particularly where the matrix is an unweathered bitumen, asphalt or tar material) do not release fibres except in very unusual circumstances or during significant disturbance (e.g. use of abrasive power tools). Others with a cementitious matrix (asbestos-cement products) can more readily release dust due to abrasion, demolition, weathering, etc. The potential for asbestos release from non-friable ACM is always lower than from friable ACM. To evaluate the condition of non-friable Materials, the following criteria are applied:

Good	No significant damage or deterioration. Still serving its intended use as a building material or finish.
Fair	Showing signs of some cracking or breakage but is not deteriorating (e.g. cracked vinyl floor tile, missing piece of tile or transite, etc.). The condition is such that it is still serving its intended use as a building material or finish but may require repair for mainly cosmetic purposes.
Poor	Significant deterioration or breaking apart of the material to the point at which it cannot be repaired, and it will require at least local removal. Material has deteriorated to the point it is not serving its intended use as building material or finish. Material may have deteriorated to a point where traffic or disturbance may cause it to become friable.

2.5 Evaluation of ACM Debris

The identification of the exact location or presence of debris on the top of ceiling tiles is limited by the number of observations made and the presence of building components such as ducts or full height walls that obstruct observations.

The presence of fallen or dislodged ACM is noted separately from the ACM source and is referred to as Debris. Debris may be friable if from a friable ACM source or a badly deteriorated non-friable ACM source. Debris may also be non-friable (such as fallen pieces of transite sheet or mastic fittings, or broken, dislodged floor tiles).

Debris	Debris may be friable or non-friable but is always identified as debris.

2.6 Evaluation of Presumed Asbestos-Containing Material (PACM)

Presumed asbestos-containing materials (PACM), are building materials that may contain asbestos but were not sampled or analyzed due to inaccessibility or the need to perform destructive testing to obtain a reasonable sample set. Evaluation of these materials is based on the assumption that these PACM are asbestos-containing.

A list of PACM is provided in the report and they are generally not included in the detailed room by room reports. Typically, they are excluded because they are inaccessible or present in very small quantities. If PACM are evaluated, Pinchin uses the criteria that correspond with the type (and friability) of the material listed above.

3.0 EVALUATION OF ACCESSIBILITY

The accessibility of building materials known or suspected of being ACM is rated according to the following criteria:

Access (A)	Common areas of the building within reach of all building users (approximately 8 '-9' from floor or standard ceiling height). Includes other areas where occupant activities may result in disturbance of material that is not normally within reach from floor level, but may be disturbed by common activities (e.g. gymnasiums, workshops, warehouses)
Access (B)	Areas of the building accessed primarily by Maintenance/Caretaking/Janitorial Staff and within reach without use of a ladder. Includes areas within reach in Boiler Rooms, Electrical Rooms, Janitors Closets, Elevator Rooms, Mechanical Rooms, etc. Includes materials within reach from fixed ladders or catwalks, mezzanines, and accessible pipe chases.
Access (C) and Visible	Areas of the building above 8' - 9' where use of a ladder or scaffold is required to reach the ACM. Only includes ACM that are visible to view without the removal or opening of other building components such as ceiling tiles or service access panels. Visible column on HMIS sheets will say YES.
Access (C) and not Visible	Areas of the building above 8' - 9' where use of a ladder or scaffold is required to reach the ACM. Includes ACM that are not visible to view and require the removal of a building component to see, such as ceilings tiles or access panels to view and access. Includes rarely entered crawl spaces, attic spaces, etc. Observations will be limited to the extent visible from the access points. Visible column on HMIS sheets will say NO.
Access (D)	Areas of the building behind inaccessible solid ceiling systems, walls or equipment etc. where demolition of the ceiling, wall or equipment etc. is required to reach the ACM. Material inaccessible due to height or location or is only accessed under unusual situations. Evaluation of condition and extent of ACM is limited or impossible, depending on the surveyor's ability to visually examine materials in Access D.

4.0 ACTION MATRIX AND DEFINITIONS

Pinchin's evaluation of the viability of a specific asbestos control option is based on the consideration of the friability, condition, accessibility and visibility of a material. The logic used is that damaged ACM located in an area frequently accessed by all building occupants is of a higher priority than damaged ACM located in an infrequently accessed service area. The action matrix considers the potential for fibre release (primarily from friable ACM) and the possible concerns from regulatory bodies and many building occupants to all damaged ACM (including non-friable).

In any building with asbestos, many current regulations require an Asbestos Management Program be implemented. Depending on the condition and the accessibility, more active measures such as repair or removal may be recommended. The following matrix provides guidance for recommended Actions in the absence of renovation or demolition. In the event of construction or maintenance activity which will disturb ACM more aggressive control or removal will be required.

4.1 Action Matrix

The following tables outline the action decisions based on the relationship of assessed factors. Table I applies to friable ACM. Table II applies to non-friable ACM.

Table I Decision Matrix for Friable ACM

	Condition			
Access	**Good**	**Fair**	**Poor**	**Debris**
(A)	Action 5[1]	Action 5[2]	Action 3	Action 1
(B)	Action 7	Action 6[3]	Action 3	Action 1
(C) Visible	Action 7	Action 6	Action 3	Action 2
(C) Not Visible	Action 7	Action 7	Action 4	Action 2
(D)	Action 7	Action 7	Action 7	Action 7

Table II Decision Matrix for Potentially Friable and Non-Friable ACM

	Condition			
Access	**Good**	**Fair**	**Poor**	**Debris**
(A)	Action 7	Action 7[4]	Action 3	Action 1
(B)	Action 7	Action 7	Action 3	Action 1
(C) Visible	Action 7	Action 7	Action 4	Action 2
(C) Not Visible	Action 7	Action 7	Action 4	Action 2
(D)	Action 7	Action 7	Action 7	Action 7

[1] If friable ACM in access (A)/Good condition is not proactively removed Action 7 (Manage) is recommended.
[2] If friable ACM in access (A)/Fair condition is not proactively removed repair is recommended.
[3] If friable ACM in access (B)/Fair condition is likely to be disturbed after repair proactive removal is recommended.
[4] Action 7 is recommended for all non-friable ACM in Fair condition however some clients may wish to repair or take some action primarily for cosmetic reasons

4.2 Action Definitions

The following are the definitions in the Action Matrix Table presented above:

Action Definitions	
Action 1	Clean-Up of ACM Debris Restrict access that is likely to cause a disturbance of the ACM Debris and clean up ACM Debris. Utilize appropriate asbestos precautions.
Action 2	Precautions for Access Which may Disturb ACM Debris Use appropriate means to isolate the debris or to limit entry to the area which may disturb the material. At locations where ACM Debris can remain in place in lieu of removal or clean-up (e.g. Debris on top of ceiling tiles or behind lockable door), Utilize appropriate asbestos precautions to enter the area if this will disturb debris. The precautions will be required until the ACM Debris has been cleaned up.
Action 3	ACM Removal Remove ACM. Utilize asbestos procedures appropriate to the scope of the removal work. Until it is removed, restrict access to the material so it is not disturbed.
Action 4	Precautions for Work Which may Disturb ACM in Poor Condition. Utilize appropriate asbestos precautions if ACM may be disturbed by work on or near ACM. This does not require restricting access to the area, only control of work which may contact or disturb the ACM. Removal is the only viable option if work will disturb ACM.
Action 5	Proactive ACM Removal Remove friable ACM where the presence of friable asbestos in Good condition is not desirable. If friable ACM in Fair condition is not removed, then Repair friable ACM.
Action 6	ACM Repair Repair friable ACM in Fair condition which is not likely to be damaged again or disturbed by normal use of the area or room. Pinchin recommends proactive removal if friable ACM is likely to be damaged or disturbed during normal use of the area or room
Action 7	Asbestos Management Program with Routine Surveillance Implement an Asbestos Management Program, including routine surveillance of ACM. Reassess materials regularly (typically once per year).

Master Template: Methodology Annex A to Appendix I Evaluation Criteria, HAZ, January 10, 2020

APPENDIX II

Location Summary Report

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

LOCATIONS LIST

PINCHIN
1.855.PINCHIN www.pinchin.com

Client:City of Winnipeg Water and Waste Dept
Site: 7740 Wiles Avenue, Winnipeg, MB
Building Name: Effluent Gate Chamber
Survey Date: 2008-03-26
Last Re-Assessment: 2021-06-28

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Wet Well	0	Main	A	Roof sections needs to be tested prior to any renovation or demolition activities.
2	Meter Room	0	Main	A	Roof sections needs to be tested prior to any renovation or demolition activities.

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

LOCATIONS LIST

PINCHIN
1.855.PINCHIN www.pinchin.com

Client:City of Winnipeg Water and Waste Dept **Site: 7740 Wiles Avenue, Winnipeg, MB**
Building Name: Lagoon Control Chamber
Survey Date: 2008-03-26 **Last Re-Assessment: 2021-06-28**

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Main Floor	0	Main	A	Vermiculite is presumed present within the hollow core walls. Mortar on Masonry walls is presumed containing.
2	Basement	0	BSMT	A	Not accessible during time of inspection on 2020 due to safety condition.
3	Exterior of Building	0	NA	A	Cinder block walls suspect to contain vermiculite. Mortar on Masonry walls is presumed asbestos containing. Roof sections needs to be tested prior to any renovation or demolition activities. Two additional samples of plaster are required to confirm negative

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

LOCATIONS LIST

PINCHIN
1.855.PINCHIN www.pinchin.com

Client:City of Winnipeg Water and Waste Dept
Site: 7740 Wiles Avenue, Winnipeg, MB
Building Name: Lagoon Outfall Bldg. West Side
Survey Date: 2008-03-26
Last Re-Assessment: 2021-06-28

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Lagoon Outfall Bldg. - West Side	126	NA	A	
2	Lagoon Outfall Bldg. - East Side	0	1	A	
3	Exterior of Building	0	NA	A	Roof sections needs to be tested prior to any renovation or demolition activities.

APPENDIX III

Asbestos Material Summary Report / Sample Log

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

PINCHIN
1.855.PINCHIN www.pinchin.com

Client:City of Winnipeg Water and Waste Dept **Site: 7740 Wiles Avenue, Winnipeg, MB** **Building Name: Effluent Gate Chamber** **Surveyor: JYC** **Survey Date: 2008-03-26**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	V9500	OTHER | ROOFING MATERIAL	1	A	0	0	0	0	Presumed Asbestos	Yes

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

PINCHIN
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Client:City of Winnipeg Water and Waste Dept **Site: 7740 Wiles Avenue, Winnipeg, MB** **Building Name: Lagoon Control Chamber** **Surveyor: JYC** **Survey Date: 2008-03-26**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	S0001	WALL | PLASTER | PLASTER ON CONCRETE, EXTERIOR WALL FOUNDATION, LAGOON CONTROL CHAMBER, WEST END WATER POLLUTION CONTROL CENTRE (SAMPLE NO. 0018 AUGUST 2015) 1517151_PLM	3	A	0	0	0	100	None Detected	No
Asbestos	V9000	DUCT | CEMENT PRODUCT	1,2	A	8	0	0	0	Confirmed Asbestos	Yes
Asbestos	V9500	OTHER | ROOFING MATERIAL |	3	A	0	0	0	0	Presumed Asbestos	Yes
Asbestos	V9500	WALL | MORTAR |	1,2,3	A	0	0	0	100	Presumed Asbestos	Yes
Asbestos	V9500	WALL | PLASTER |	3	A	0	0	0	25	Presumed Asbestos	Yes
Asbestos	V9500	WALL | VERMICULITE	1,3	A	0	0	0	33	Presumed Asbestos	Yes

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

PINCHIN
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Client:City of Winnipeg Water and Waste Dept **Site: 7740 Wiles Avenue, Winnipeg, MB** **Building Name: Lagoon Outfall Bldg. West Side** **Surveyor: LSC** **Survey Date: 2008-03-26**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	V9500	OTHER | ROOFING MATERIAL	3	A	0	0	0	0	Presumed Asbestos	Yes

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

APPENDIX IV

HMIS Data Report

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

ALL DATA REPORT

PINCHIN
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Client: City of Winnipeg Water and Waste Dept **Site: West End Water Pollution Control Centre** **Building Name: Lagoon Control Chamber**
Location: #1 : Main Floor, Phase: A **Floor: Main** **Room #:** **Area (sqft): 0**
Survey Date: 2008-03-26 **Last Re-Assessment: 2021-06-28**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI													
Duct	Exhaust	Cement Product	All Pipe	N/A	B	Y		4			LF	V9000	Confirmed Asbestos		Confirmed Asbestos(NF)
Floor		Concrete (poured)													
Mechanical Equipment	Motor	Not Insulated													
Piping	All	Not Insulated						800							
Structure	Deck	Concrete (poured)						800							
Wall		Vermiculite			A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	All	Mortar		Masonry	B	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Vermiculite is presumed present within the hollow core walls. Mortar on Masonry walls is presumed containing.

Client: City of Winnipeg Water and Waste Dept **Site: West End Water Pollution Control Centre** **Building Name: Lagoon Control Chamber**
Location: #2 : Basement, Phase: A **Floor: BSMT** **Room #:** **Area (sqft): 0**
Survey Date: 2008-03-26 **Last Re-Assessment: 2021-06-28**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI													
Duct	Exhaust	Cement Product	All Pipe	N/A	B	Y		4			LF	V9000	Confirmed Asbestos		Confirmed Asbestos(NF)
Floor		Concrete (poured)													
Mechanical Equipment	Motor	Not Insulated													
Piping	All	Not Insulated													
Structure	Deck	Concrete (poured)													
Wall		Mortar		Masonry				100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Not accessible during time of inspection on 2020 due to safety condition.

Client: City of Winnipeg Water and Waste Dept **Site: West End Water Pollution Control Centre** **Building Name: Lagoon Control Chamber**
Location: #3 : Exterior of Building, Phase: A **Floor: NA** **Room #:** **Area (sqft): 0**
Survey Date: 2008-03-26 **Last Re-Assessment: 2021-06-28**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Soffit	Concrete (precast)	Surface		C	Y									
Other	Built up roofing	Roofing material										V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Plaster	Base		A	Y		100			%	S0001	None Detected	N.D.	None
Wall		Vermiculite	Insulation		B	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Plaster						100			%	V9500	Presumed Asbestos		Presumed Asbestos(PF)

Cinder block walls suspect to contain vermiculite. Mortar on Masonry walls is presumed asbestos containing. Roof sections needs to be tested prior to any renovation or demolition activities. Two additional samples of plaster are required to confirm negative

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

ALL DATA REPORT

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Client: City of Winnipeg Water and Waste Dept **Site: West End Water Pollution Control Centre** **Building Name: Effluent Gate Chamber**
Location: #1 : Wet Well, Phase: A **Floor: Main** **Room #:** **Area (sqft): 0**
Survey Date: 2008-03-26 **Last Re-Assessment: 2021-06-28**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI													
Duct	Exhaust	Not Insulated		N/A	A	Y									
Floor		Concrete (poured)													
Mechanical Equipment	Motor	Not Insulated													
Other	Built up roofing	Roofing material										V9500	Presumed Asbestos		Presumed Asbestos(NF)
Piping	All	Not Insulated													
Structure	Deck	Concrete (poured)													
Wall		Masonry													

Roof sections needs to be tested prior to any renovation or demolition activities.

Client: City of Winnipeg Water and Waste Dept **Site: West End Water Pollution Control Centre** **Building Name: Effluent Gate Chamber**
Location: #2 : Meter Room, Phase: A **Floor: Main** **Room #:** **Area (sqft): 0**
Survey Date: 2008-03-26 **Last Re-Assessment: 2021-06-28**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI													
Duct	Not Found	NI													
Floor		Concrete (poured)													
Mechanical Equipment	Not Found	NI													
Piping	All	Not Insulated													
Structure	Deck	Concrete (poured)													
Wall		Wood													

Roof sections needs to be tested prior to any renovation or demolition activities.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

Client: City of Winnipeg Water and Waste Dept **Site: West End Water Pollution Control Centre** **Building Name: Lagoon Outfall Bldg. West Side**
Location: #1 : Lagoon Outfall Bldg. - West Side, Phase: A **Floor: NA** **Room #:** **Area (sqft): 126**
Survey Date: 2008-03-26 **Last Re-Assessment: 2021-06-28**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Abated Material	Surface	Plaster	C	Y					%	S0001	[None]	10-25%	[Abated]
Duct	Not Found	NI													
Floor	All	Concrete (poured)													
Mechanical Equipment	Not Found	NI													
Piping		Polyvinyl chloride (PVC)													
Structure	All	Wood													
Wall	All	Abated Material	Surface	Cement Product	C	Y					%	V0001	[None]	10-25%	[Abated]

Client: City of Winnipeg Water and Waste Dept **Site: West End Water Pollution Control Centre** **Building Name: Lagoon Outfall Bldg. West Side**
Location: #2 : Lagoon Outfall Bldg. - East Side, Phase: A **Floor: 1** **Room #:** **Area (sqft): 0**
Survey Date: 2008-03-26 **Last Re-Assessment: 2021-06-28**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Styrofoam													
Duct	Not Accessible	NI													
Floor	All	Concrete (poured)													
Mechanical Equipment	Not Found	NI													
Structure	Not Accessible	NI													
Wall		Wood													
Wall		Styrofoam													

Client: City of Winnipeg Water and Waste Dept **Site: West End Water Pollution Control Centre** **Building Name: Lagoon Outfall Bldg. West Side**
Location: #3 : Exterior of Building, Phase: A **Floor: NA** **Room #:** **Area (sqft): 0**
Survey Date: 2008-03-26 **Last Re-Assessment: 2021-06-28**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Soffit	Aluminum	Surface	Paint	C	Y									
Other	Built up roofing	Roofing material										V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Aluminum	Surface	Paint	A	Y									

Roof sections needs to be tested prior to any renovation or demolition activities.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

FINAL

Asbestos Reassessment

South End Water Pollution Control Centre
100 Ed Spencer Drive,
Winnipeg, Manitoba

Prepared for:

City of Winnipeg Water and Waste Department
110 – 1199 Pacific Avenue
Winnipeg, Manitoba R3E 3S8

October 14, 2021

Pinchin File: 289439

Issued to:	**City of Winnipeg Water and Waste Department**
Issued on:	**October 14, 2021**
Pinchin File:	**289439**
Issuing Office:	**Winnipeg, MB**

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EXECUTIVE SUMMARY

City of Winnipeg Water and Waste Department (Client) retained Pinchin Ltd. (Pinchin) to conduct an asbestos building materials reassessment at 100 Ed Spencer Drive, Winnipeg, Manitoba. The reassessment was performed on June 21, 2021.

The objective of the reassessment was to evaluate the condition and quantity of previously reported asbestos-containing materials (ACM), and develop corrective action plans as required for the purposes of long-term management. The results of this assessment are not intended for construction, renovation, demolition or project tendering purposes.

The reassessment was based on information gathered from previous comprehensive assessment report completed by Pinchin. The original assessment report for the South End Water Pollution Control Centre was dated March 6, 2007. The results of the original report and subsequent survey update reports were reviewed prior to completing the reassessment.

The assessed area was limited to the parts of the building where the original report had indicated asbestos-containing materials (ACMs) were present. Rooms where no ACM's were reported were not inspected.

HMIS data has been updated online. In addition, location photos depicting ACMs have been uploaded to HMIS.

Three additional Bulk Samples of drywall joint compound were collected confirming the presence of asbestos. Results are included in Appendix I.

SUMMARY OF FINDINGS

Asbestos-containing materials (ACM) are present as follows:

- Asbestos-containing texture finish present within Location No.'s. 44, 49 and 98 is a friable material which is in GOOD condition;
- Asbestos-containing parging cement present on pipe fittings of various pipe systems throughout the buildings is a friable material. The parging cement is jacketed with canvas and is generally in GOOD condition except for 3 fittings in FAIR condition within the Grit Building Location No.59 and 2 fittings in FAIR condition within the Service Building Location No.'s 68 and 70;
- Asbestos-containing parging cement insulating ducting throughout the buildings is a friable material. The parging cement is jacketed with canvas and is in GOOD condition;

- Asbestos-containing parging cement insulating mechanical equipment throughout the buildings is a friable material. The parging cement is jacketed with canvas and is in GOOD condition;
- Asbestos-containing plaster finishes throughout the buildings are non-friable while in place but can generate friable dust upon removal. All plaster is in good condition;
- Drywall joint compound presumed and confirmed to contain asbestos is present as wall and ceiling finishes throughout the facility. The drywall joint compound is potentially friable and is in GOOD condition except for 2 SF in FAIR condition within the Admin Building Location No.11;
- Setting compounds on ceramic tile finishes are presumed to contain asbestos. Setting compounds are potentially friable and are in GOOD condition;
- Mortar on the concrete block walls throughout the facility is presumed to contain asbestos. The mortar is potentially friable and is in GOOD condition; and
- Tar present on the exterior wall of the Grit Building contains asbestos. The tar is non-friable and is in GOOD condition.

SUMMARY OF RECOMMENDATIONS

The following is a summary of significant recommendations; refer to the body of the report for detailed recommendations.

1. Remediate the following materials:
    i. Repair following Moderate Risk (Type 2) procedures damaged exposed parging cement in FAIR condition within the following locations:
        1. 3 fittings within the Grit Building Location No.59;
        2. 1 fitting within the Service Building Location No.68;
        3. 1 fitting within the Service Building Location No.70; and
        4. Due to the location and potential of future damage consider proactive removal of all parging cement fittings (5) within the Service Building Location No.70.
    ii. Repair following Moderate Risk (Type 2) procedures 2 SF of damaged drywall joint compound ceiling finish within the Admin Building Location No.11.

2. Perform a reassessment of asbestos materials on an annual basis.
3. Prior to renovations or demolition, perform a pre-construction assessment to identify any hazardous materials that may be disturbed by the work.
4. Follow appropriate safe work procedures when handling or disturbing asbestos.

This Executive Summary is subject to the same standard limitations as contained in the report and must be read in conjunction with the entire report.

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APPENDICES

1.0 INTRODUCTION AND SCOPE

City of Winnipeg Water and Waste Department (Client) retained Pinchin Ltd. (Pinchin) to conduct an asbestos building materials reassessment of South End Water Pollution Control Centre located at 100 Ed Spencer Drive, Winnipeg, Manitoba.

Pinchin performed the reassessment on June 21, 2021. The surveyor was accompanied by City of Winnipeg Water and Waste representatives during the reassessment. The assessed area was occupied at the time of the assessment.

The objectives of the reassessment were to document the locations, quantities and conditions of previously identified asbestos containing building materials and develop corrective action plans as required. This reassessment is only to be used for the purposes of long-term management and routine maintenance. The results of this reassessment are not to be used for construction, renovation, demolition or project tendering purposes.

1.1 Scope of Assessment

The objective of the reassessment was to evaluate the condition and quantity of previously reported asbestos-containing materials (ACM), and develop corrective action plans as required.

Additional objectives included the following:

- Documentation of any asbestos abatement that was performed since the last reassessment; and
- Additional sampling to delineate previously identified ACM.

Please refer to Appendix II for a detailed description of the methodology used for this assessment.

2.0 BACKGROUND INFORMATION

2.1 Existing Reports and Summary of Asbestos Abatement

2.1.1 Review of Previous Reports

The reassessment was based on information gathered from previous comprehensive assessment report completed by Pinchin. The original assessment report for the South End Water Pollution Control Centre was dated March 6, 2007. The results of the original report and subsequent survey update reports were reviewed prior to completing the reassessment.

2.1.2 Summary of Asbestos Abatement since the Previous Assessment

Based on a review of the above noted abatement reports, and observations made during the reassessment, asbestos abatement has not been conducted since the last assessment.

3.0 FINDINGS

The following section summarizes the findings of the reassessment and provides a general description of the asbestos materials identified and their locations.

For details on quantities, condition and locations of ACM; refer to the Asbestos Material Summary Report and HMIS Data Report in Appendix IV and V.

Appendix I presents the asbestos bulk sample analytical results.

3.1 Asbestos

3.1.1 Texture Finishes (Decorative)

Asbestos-containing texture finishes are present within the Pump and Screen Building Viewing Gallery (Location No. 44) and Motor Room- (Location No. 49), and within the Unox Building, Unox Equipment Room, Location No.98. Texture finish is a friable material. The texture finishes are painted and are in GOOD condition.

Asbestos-containing textured ceiling finish observed in GOOD condition.

3.1.2 Pipe Insulation

Asbestos-containing parging cement is present as insulation on pipe fittings of the heating water, chilled water, glycol, domestic water, hot flushing water, high & low pressure steam, and cold water systems in the Administration, Pump and Screen, Grit, Service, Primary Clarifiers, Oxygen Reactor, Gallery 3, Secondary Clarifier, and Unox Buildings.

The parging cement is jacketed with canvas and is generally in GOOD condition except for the following damage:

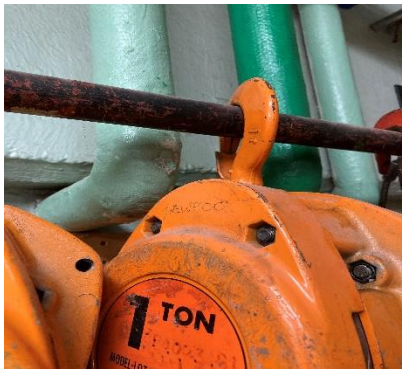
- 3 fittings within the Grit Building Location No.59 rated in FAIR condition.
- 1 fitting within the Service Building Location No.68 rated in FAIR condition.
- 1 fitting within the Service Building Location No.70 rated in FAIR condition.

Pipes insulated with additional friable asbestos insulations may be present in inaccessible spaces such as above solid ceilings, in chases, in column enclosures and within shafts.

Damaged/exposed parging cement on 3 fittings within the Grit Building Location No. 59.

Damaged/exposed parging cement on 3 fittings within the Grit Building Location No. 59.

Damaged/exposed parging cement on 1 fitting within the Service Building Location No. 68.



Damaged/exposed parging cement on 1 fitting within the Service Building Location No. 70.

3.1.3 Duct Insulation and Mastic

Asbestos-containing parging cement is present on ducts within the Pump and Screen Building (Location No's. 42 and 51), Service Building (Location No's. 66, 68, 71, 73 and 76), Primary Clarifier Service Area (Location No. 81), Secondary Clarifier (Location No's. 89, 90, 93, and 101) and Unox Equipment Room (Location No. 98). The parging cement is friable, was jacketed with canvas, and is in GOOD condition.

Asbestos containing parging cement insulating ducting in various location observed in good condition.

3.1.4 Mechanical Equipment Insulation

Asbestos-containing parging cement is present on mechanical equipment (Boiler Breeching, Heat Exchangers, Boilers) within the Administration Building – Mechanical Room (Location No. 30), Service Building Boiler Room (Location No. 76) and Primary Clarifier East Walkway (Location No. 79). Parging cement is a friable material. It is covered with canvas jacket. It is in GOOD condition.

Asbestos-containing parging cement present on mechanical equipment in various locations in GOOD condition.

3.1.5 Vermiculite

Loose fill vermiculite debris was not observed in the spaces or areas inspected. Destructive testing was not performed, and vermiculite may be present within masonry block walls, above solid ceilings or other void spaces.

3.1.6 Plaster

Plaster present as ceiling finish in the Washroom-Pump and Screen Building (Location No. 55) is presumed to contain asbestos. Plaster is non-friable while in place but can become friable upon disturbance. Plaster is in GOOD condition.

Plaster on the exterior walls of the Primary Clarifier, Secondary Clarifier, Administration, Pump & Screen, Service and Oxygen Reactor Buildings has been confirmed to contain asbestos. Plaster finishes are non-friable while in place but can become friable during disturbance. All exterior plaster is in GOOD condition.

Presumed and confirmed asbestos-containing plaster in various locations observed in GOOD condition.

3.1.7 Drywall Joint Compound

Drywall (gypsum board) and drywall joint compound is present as wall and ceiling finishes throughout the facility. Three samples of drywall joint compound were collected during this years reassessment confirming the presence of asbestos (Samples 0001A-C). In the absence of additional sampling all drywall finishes should be treated as asbestos-containing. Drywall joint compound is non-friable while in place but can generate friable dust upon removal. All drywall joint compound is in GOOD condition except for 2 SF of damage rated in FAIR condition within the Admin Building Location No.11.

Damaged asbestos-containing drywall joint compound in FAIR condition within the Admin Building Location No.11.

3.1.8 Roofing Products

No visual inspection or sampling was conducted at this location. Destructive testing will be required prior to any renovation or demolition activities.

3.1.9 Other Building Materials

Mortar present on concrete block walls throughout the facility is presumed to contain asbestos. The mortar is potentially friable and is in GOOD condition.

Tar present on the exterior wall of the Grit Building contains asbestos. The tar is non-friable and is in GOOD condition

Ceramic tile setting compound present on ceramic floor and wall finishes throughout the facility is presumed to contain asbestos. Setting compound is potentially friable and is in GOOD condition.

3.1.10 Presumed Asbestos Materials

Materials listed as exclusions in the previous reports remain as exclusions. Sampling, assessment, or verification of excluded materials was not conducted.

4.0 RECOMMENDATIONS

4.1 General

Perform a detailed intrusive assessment prior to building renovation or demolition operations. The assessment should include; destructive testing (i.e. coring and/or removal of building finishes and components), sampling of other hazardous materials (lead, mercury, PCBs, mould, etc.), and materials not tested in this study (i.e. roofing materials, caulking, mastics).

4.2 Remedial Work

The following remedial work is recommended.

Material, Quantity & Condition	Location Name (Location #)	Recommended Procedure
Parging cement, 3 Fittings in FAIR condition	Grit Building Location No.59	Repair in accordance with Moderate Risk (Type 2) procedures.
Parging cement, 1 Fitting in FAIR condition	Service Building Location No.68	Repair in accordance with Moderate Risk (Type 2) procedures.
Parging cement, 1 Fitting in FAIR condition	Service Building Location No.70	Repair in accordance with Moderate Risk (Type 2) procedures.
Parging cement, 5 fittings in GOOD condition	Service Building Location No.70	Consider proactive removal following Moderate Risk (Glovebag Procedures)
Drywall joint compound, 2 SF FAIR condition	Admin Building Location No.11	Repair following Moderate Risk (Type 2) Procedures

4.3 On-going Management and Maintenance

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

Perform a reassessment of asbestos materials on an annual basis.

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

Update the asbestos inventory report for the building upon completion of any abatement of ACM.

5.0 TERMS AND LIMITATIONS

This work was performed subject to the Terms and Limitations presented or referenced in the proposal for this project.

Information provided by Pinchin is intended for Client use only. Pinchin will not provide results or information to any party unless disclosure by Pinchin is required by law. Any use by a third party of reports or documents authored by Pinchin or any reliance by a third party on or decisions made by a third party based on the findings described in said documents, is the sole responsibility of such third parties. Pinchin accepts no responsibility for damages suffered by any third party as a result of decisions made or actions conducted. No other warranties are implied or expressed.

6.0 REFERENCES

The following legislation and documents were referenced in completing the assessment and this report:

Federal

1. Canada Occupational Health and Safety Regulation, SOR/86-304.
2. Consolidated Transportation of Dangerous Goods Regulations, including Amendment SOR/2019-101, Transportation of Dangerous Goods Act.

Manitoba

1. General Regulation – Workplace Safety and Health Act W210.
2. Workplace Health Hazard Regulation (Manitoba Regulation 217/2006 Workplace Safety and Health Regulation), under the Workplace Safety and Health Act.
3. Canadian Environmental Protection Act – SOR/92-507.
4. Manitoba Regulation MR 474/88, Manitoba PCB Regulation made under The Dangerous Goods Act.
5. Guide for Asbestos Management – Safe Work Manitoba.

APPENDIX I

Asbestos Analytical Certificates

Your Project #: 289439
Site Location: SEWPCC AND MCPHILLIPS
Your C.O.C. #: n/a

Attention: Ken Brydges

Pinchin Ltd
54 Terracon Pl
Winnipeg, MB
CANADA R2J 4G7

Report Date: 2021/07/20
Report #: R6727311
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1J5261
Received: 2021/07/14, 09:44

Sample Matrix: Solid
Samples Received: 9

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Asbestos by PLM - 0.5 RDL (1)	9	N/A	N/A	COR3SOP-00002	EPA 600R-93/116

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Bureau Veritas Laboratories' Asbestos Laboratory is accredited by NVLAP for bulk asbestos analysis by polarized light microscopy, NVLAP Code 600136-0.

This report may not be reproduced, except in full, without the written approval of Bureau Veritas Canada. This report may not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any other agency of the U.S. Government.

Bureau Veritas Laboratories' scope of accreditation includes EPA-600/M4-82-020: "Interim Method for the Determination of Asbestos in Bulk Insulation Samples" and EPA-600/R-93/116: "Method for the Determination of Asbestos in Bulk Building Materials".
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) P.O.B. - Percent of Bulk

When Asbestos data is reported with other data, this report contains data that are not covered by the NVLAP accreditation.

Your Project #: 289439
Site Location: SEWPCC AND MCPHILLIPS
Your C.O.C. #: n/a

Attention: Ken Brydges

Pinchin Ltd
54 Terracon Pl
Winnipeg, MB
CANADA R2J 4G7

Report Date: 2021/07/20
Report #: R6727311
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1J5261
Received: 2021/07/14, 09:44

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Antonella Brasil, Senior Project Manager
Email: Antonella.Brasil@bureauveritas.com
Phone# (905)817-5817
==========
This report has been generated and distributed using a secure automated process.
BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

BV Labs Job #: C1J5261
Report Date: 2021/07/20

Pinchin Ltd
Client Project #: 289439
Site Location: SEWPCC AND MCPHILLIPS
Sampler Initials: KB

Asbestos Analytical Results

EPA/600R-93/116 by Polarized Light Microscopy

0001 A-SEWPCC - ADMIN -LOC.11 - DRYWALL JOINT COMPOUND CEILNG

BV Labs ID: QCB406 Date Analyzed: 2021/07/19

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous white drywall joint compound	Not Detected		Non-Fibrous

0001 B-SEWPCC - ADMIN -LOC.19 - DRYWALL JOINT COMPOUND WALL

BV Labs ID: QCB407 Date Analyzed: 2021/07/19

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Non-homogeneous white drywall joint compound	**Chrysotile** 2%		Non-Fibrous

0001 C-SEWPCC - ADMIN -LOC.11 - DRYWALL JOINT COMPOUND CEILNG

BV Labs ID: QCB408 Date Analyzed: 2021/07/19

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1			N/A		
	Comment:	Not Analyzed - Positive Stop			

0002 A-MCPHILLIPS - PUMP BUILDING A- LOC.6 - VINYL FLOOR TILES 12*2 BEIGE

BV Labs ID: QCB409 Date Analyzed: 2021/07/19

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous beige vinyl floor tile	**Chrysotile** 3%		Non-Fibrous

The limit of quantitation is 0.50%, although asbestos may be qualitatively detected at concentrations less than 0.50%. Samples for which asbestos is detected at <0.50% are reported as trace, “<0.50%”. “Not Detected” indicates that no asbestos fibres were observed.

Calibrated Visual Estimate (%)
Date Format : yyyy/mm/dd

BV Labs Job #: C1J5261
Report Date: 2021/07/20

Pinchin Ltd
Client Project #: 289439
Site Location: SEWPCC AND MCPHILLIPS
Sampler Initials: KB

Asbestos Analytical Results

EPA/600R-93/116 by Polarized Light Microscopy

0002 B-MCPHILLIPS - PUMP BUILDING A- LOC.6 - VINYL FLOOR TILES 12*2 BEIGE

BV Labs ID: QCB410 Date Analyzed: 2021/07/19

	P.O.B	Sample Morphology	Asbestos	Other Fibres		Particulate
Layer 1			N/A			

Comment: Not Analyzed - Positive Stop

0002 C-MCPHILLIPS - PUMP BUILDING A- LOC.6 - VINYL FLOOR TILES 12*2 BEIGE

BV Labs ID: QCB411 Date Analyzed: 2021/07/19

	P.O.B	Sample Morphology	Asbestos	Other Fibres		Particulate
Layer 1			N/A			

Comment: Not Analyzed - Positive Stop

0003 A-SEWPCC - AHU ROOM ADJACENT LOC.66 - PARGING CEMENT FTG CW

BV Labs ID: QCB412 Date Analyzed: 2021/07/19

	P.O.B	Sample Morphology	Asbestos	Other Fibres		Particulate
Layer 1	100	Homogeneous grey parging cement	Not Detected	Cellulose	40%	Non-Fibrous
				Fibrous Glass	20%	

The limit of quantitation is 0.50%, although asbestos may be qualitatively detected at concentrations less than 0.50%. Samples for which asbestos is detected at <0.50% are reported as trace, "<0.50%". "Not Detected" indicates that no asbestos fibres were observed.

Calibrated Visual Estimate (%)
Date Format : yyyy/mm/dd

BV Labs Job #: C1J5261
Report Date: 2021/07/20

Pinchin Ltd
Client Project #: 289439
Site Location: SEWPCC AND MCPHILLIPS
Sampler Initials: KB

Asbestos Analytical Results

EPA/600R-93/116 by Polarized Light Microscopy

0003 B-SEWPCC - AHU ROOM ADJACENT LOC.66 - PARGING CEMENT FTG CW

BV Labs ID: QCB413 Date Analyzed: 2021/07/19

	P.O.B	Sample Morphology	Asbestos	Other Fibres		Particulate
Layer 1	100	Homogeneous grey parging cement	Not Detected	Cellulose	40%	Non-Fibrous
				Fibrous Glass	20%	

0003 C-SEWPCC - AHU ROOM ADJACENT LOC.66 - PARGING CEMENT FTG HWH

BV Labs ID: QCB414 Date Analyzed: 2021/07/19

	P.O.B	Sample Morphology	Asbestos	Other Fibres		Particulate
Layer 1	100	Homogeneous grey parging cement	Not Detected	Cellulose	40%	Non-Fibrous
				Fibrous Glass	20%	

The limit of quantitation is 0.50%, although asbestos may be qualitatively detected at concentrations less than 0.50%. Samples for which asbestos is detected at <0.50% are reported as trace, "<0.50%". "Not Detected" indicates that no asbestos fibres were observed.

Calibrated Visual Estimate (%)
Date Format : yyyy/mm/dd

BV Labs Job #: C1J5261
Report Date: 2021/07/20

Pinchin Ltd
Client Project #: 289439
Site Location: SEWPCC AND MCPHILLIPS
Sampler Initials: KB

GENERAL COMMENTS

Since vinyl floor tiles may contain very fine asbestos fibres that are below the resolution limits of the PLM, the estimated percentage should be treated as a mininum value only. Quantitative analysis by Transmission Electron Microscopy is recommended if an improved estimate is required.
Samples can contain very fine asbestos fibres that are below the resolution limits of the PLM. Transmission Electron Microscopy (TEM) is recommended for confirmation of None Detected results.

Results relate only to the items tested.

Bureau Veritas Laboratories 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

BV Labs Job #: C1J5261
Report Date: 2021/07/20

Pinchin Ltd
Client Project #: 289439
Site Location: SEWPCC AND MCPHILLIPS
Sampler Initials: KB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Jon Delos Santos, Laboratory Supervisor

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Bureau Veritas Laboratories 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

APPENDIX II
Methodology

1.0 METHODOLOGY

Pinchin conducts an inspection of previously identified asbestos-containing materials (ACM) to evaluate the current condition of all accessible identified in the most recent assessment. The surveyor makes reference to any existing assessment or abatement reports (as provided by the Client).

1.1 Limitations on Scope

The reassessment excludes the following:

- Articles belonging to the owner, tenant or occupant (e.g. stored items, furniture, appliances, etc.);
- Underground materials or equipment (e.g. vessels, drums, underground storage tanks, pipes, etc.);
- Building envelope, structural components, inaccessible or concealed materials or other items where sampling may cause consequential damage to the property.
- Energized systems (e.g. internal boiler components, elevators, mechanical or electrical components);
- Controlled products (e.g. stored chemicals, operational or process-related substances); and
- Materials not typically associated with construction (e.g. settled dust, spills, residual contamination from prior spills, etc.).

As per the original scope of work, concealed locations such as ceiling spaces above solid ceilings, shafts and chases are accessed via existing access panels. Our investigation does not include demolition of drywall or plaster walls to view concealed conditions. Structural items or exterior building finishes are not removed to determine the presence of concealed materials.

1.2 Methodology

Existing sampling data is reviewed and relied upon. If sampling is conducted, samples are collected at a rate that is in compliance with the requirements of local regulations and guidelines. The sampling strategy is also based on known ban dates and phase out dates of the use of asbestos; sampling of certain building materials is not conducted after specific construction dates. In addition, to be conservative, several years past these dates are added to account for some uncertainty in the exact start / finish date of construction and associated usage of ACM.

Materials listed as exclusions in the previous reports remain as exclusions. Sampling, assessment or verification of excluded materials was not conducted.

If present, the following materials are presumed to be asbestos-containing and are best sampled immediately prior to commencing renovation/disturbance:

- Roofing felts and tar, mastics;
- Floor levelling compound;
- Ceramic tile setting compound;
- Elevator and lift brakes;
- Electrical components or wiring within control centers, breakers, motors or lights, insulation on wiring;
- Moulded plastic components (laboratory bench tops);
- Refractory materials and insulations in boilers, incinerators and stacks;
- Insulation under metal clad boilers and vessels;
- Mechanical packing, ropes and gaskets;
- Vermiculite;
- Adhesives and duct mastics;
- Caulking and putties;
- Fibre-reinforced paints and coatings;
- Paper products;
- Soffit and fascia boards;
- Fire resistant doors;
- Metal clad finishes;
- Exterior cladding;
- Stucco, plaster or other cementitious parge coatings; and
- Vibration dampers on HVAC equipment.

2.0 ANALYSIS AND IDENTIFICATION OF ASBESTOS MATERIALS

Pinchin relies on the analytical results of prior surveys. Asbestos bulk samples (if required) are analyzed at an independent NVLAP accredited laboratory. Preliminary identification of asbestos fibres is made using polarized light microscopy, with confirmation of the presence and type of asbestos made by dispersion staining optical microscopy. The analysis is performed in accordance with Test Method EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials, June 1993. All independent laboratories used by Pinchin, including our laboratory, are certified under the National Voluntary Laboratory Accreditation Program (NVLAP) to perform asbestos analysis of bulk samples.

Analytical results are compared to the following criteria.

Jurisdiction	Friable	Non-Friable
Manitoba	0.1%[1]	1%
Federal	1%	1%

The asbestos analysis is completed using a stop positive approach. Only one result meeting the above regulated criteria is required to determine that a material is asbestos-containing, but all samples must be analyzed to conclusively determine that a material is non-asbestos. The laboratory stops analyzing samples from a homogeneous material once a result equal to or greater than the regulated criteria is detected in any of the samples of that material. All samples of a homogeneous material are analyzed if no asbestos is detected. In some cases, all samples are analyzed in the sample set regardless of result.

Where building materials are described in the report as “non-asbestos” or “does not contain asbestos”, this means that either no asbestos was detected by the analytical method utilized in any of the multiple samples or, if detected, it is below the lower limit of an asbestos-containing material in the applicable regulation.

Asbestos materials are evaluated in order to make recommendations regarding remedial work. The priority for remedial action is based on several factors:

- Friability (friable or non-friable);
- Condition (good, fair, poor, debris);
- Accessibility (ranking from accessible to all building users to inaccessible);
- Visibility (whether the material is obscured by other building components); and
- Efficiency of the work (for example, if damaged ACM is being removed in an area, it may be most practical to remove all ACM in the area even if it is in good condition).

For a complete description of the Evaluation Criteria and Basis of Recommendations, refer to Annex A.

Template: Methodology for Asbestos Re-Assessment, HAZ, January 10, 2020

METHODOLOGY ANNEX A EVALUATION CRITERIA

1.0 EVALUATION CRITERIA AND BASIS OF RECOMMENDATIONS

The detailed asbestos assessment provides information regarding the location, condition, accessibility and friability of the asbestos-containing materials (ACM). In order to make recommendations for compliance with current regulations, Pinchin developed the following criteria.

2.0 EVALUATION OF CONDITION

2.1 Friable Sprayed or Trowelled Fireproofing, Thermal Insulation and Texture Finishes (Surfacing Materials)

To evaluate the condition of ACM sprayed or trowelled on fireproofing, sprayed or trowelled thermal insulation (non-mechanical), or texture, decorative or acoustic finishes, the following criteria are applied:

Good	Surface of material shows no significant signs of damage, deterioration or delamination. Good condition includes unencapsulated or unpainted fireproofing or texture finishes, where no or limited delamination or damage is observed, or encapsulated fireproofing or texture finishes where the encapsulant or paint has been applied after the damage or fallout occurred.
Poor	A sprayed material that shows signs of significant damage or is significantly delaminating or deteriorating. This may be limited to surface delamination or some portion of the substrate may be exposed.

In Locations where damage exists in isolated areas, both good and poor condition may be applicable. The extent of each condition will be recorded. Fair condition is not utilized in the evaluation of ACM sprayed or trowelled fireproofing, sprayed or trowelled thermal insulation (non-mechanical), or texture, decorative or acoustic finishes.

The evaluation of the above products above ceilings may be limited by the number of observations and by building components such as ducts or full height walls that obstruct the above ceiling observations.

2.2 Friable Mechanical or Thermal System Insulation (TSI)

To evaluate the condition of mechanical insulation on vessels, boilers, breeching, ducts, pipes, fan units, equipment etc. the following criteria are applied:

Good	Insulation is completely covered in jacketing and exhibits no evidence of damage or deterioration. No insulation is exposed. Includes conditions where the jacketing has minor damage (i.e. scuffs or stains), but the jacketing is not penetrated.
Fair	Minor penetrating damage to jacketed insulation (cuts, tears, nicks, deterioration or delamination) or undamaged insulation that has never been jacketed. Insulation is exposed but not showing surface disintegration. The extent of missing insulation ranges from minor to none. Damage can be repaired.
Poor	Original insulation jacket is missing, damaged, deteriorated or delaminated. Insulation is exposed and significant areas have been dislodged. Damage cannot be readily repaired. Includes components where insulation may have been removed incompletely.

The evaluation of mechanical insulation may be limited by the number of observations made and building components such as ducts or full height walls that obstruct observations. It is often not possible to observe each foot of mechanical insulation from all angles.

2.3 Potentially Friable Materials and Miscellaneous Friable Materials

Potentially friable ACM are products that are basically non-friable while in place but have the potential to generate friable dust upon removal or if significantly disturbed without appropriate procedures. These products may become friable if damaged. Potentially friable materials include materials such as acoustic ceiling tiles and plaster. To evaluate the condition of potentially friable materials, the following criteria are applied:

Good	No significant damage or deterioration. Still serving its intended use as a building material or finish.
Fair	Showing signs of some cracking or breakage, but is not deteriorating (e.g. cracked plaster, broken but in place ceiling tile, missing tile or section of plaster etc.). The condition is such that it is still serving its intended use as a building material or finish but may require repair for mainly cosmetic purposes.
Poor	Significant deterioration or breaking apart of the material. Material has deteriorated to the point it is not serving its intended use as building material or finish. Material has deteriorated to a point it has become friable. Normally potentially friable ACM in Poor condition is not repairable and requires at least localized removal and replacement.

2.4 Non-Friable Materials

Non-friable ACM cover a wide range of products with a wide variation in their tendency to release dust or asbestos fibres to the air. Many of these materials, (particularly where the matrix is an unweathered bitumen, asphalt or tar material) do not release fibres except in very unusual circumstances or during significant disturbance (e.g. use of abrasive power tools). Others with a cementitious matrix (asbestos-cement products) can more readily release dust due to abrasion, demolition, weathering, etc. The potential for asbestos release from non-friable ACM is always lower than from friable ACM. To evaluate the condition of non-friable Materials, the following criteria are applied:

Good	No significant damage or deterioration. Still serving its intended use as a building material or finish.
Fair	Showing signs of some cracking or breakage but is not deteriorating (e.g. cracked vinyl floor tile, missing piece of tile or transite, etc.). The condition is such that it is still serving its intended use as a building material or finish but may require repair for mainly cosmetic purposes.
Poor	Significant deterioration or breaking apart of the material to the point at which it cannot be repaired, and it will require at least local removal. Material has deteriorated to the point it is not serving its intended use as building material or finish. Material may have deteriorated to a point where traffic or disturbance may cause it to become friable.

2.5 Evaluation of ACM Debris

The identification of the exact location or presence of debris on the top of ceiling tiles is limited by the number of observations made and the presence of building components such as ducts or full height walls that obstruct observations.

The presence of fallen or dislodged ACM is noted separately from the ACM source and is referred to as Debris. Debris may be friable if from a friable ACM source or a badly deteriorated non-friable ACM source. Debris may also be non-friable (such as fallen pieces of transite sheet or mastic fittings, or broken, dislodged floor tiles).

Debris	Debris may be friable or non-friable but is always identified as debris.

2.6 Evaluation of Presumed Asbestos-Containing Material (PACM)

Presumed asbestos-containing materials (PACM), are building materials that may contain asbestos but were not sampled or analyzed due to inaccessibility or the need to perform destructive testing to obtain a reasonable sample set. Evaluation of these materials is based on the assumption that these PACM are asbestos-containing.

A list of PACM is provided in the report and they are generally not included in the detailed room by room reports. Typically, they are excluded because they are inaccessible or present in very small quantities. If PACM are evaluated, Pinchin uses the criteria that correspond with the type (and friability) of the material listed above.

3.0 EVALUATION OF ACCESSIBILITY

The accessibility of building materials known or suspected of being ACM is rated according to the following criteria:

Access (A)	Common areas of the building within reach of all building users (approximately 8 '-9' from floor or standard ceiling height). Includes other areas where occupant activities may result in disturbance of material that is not normally within reach from floor level, but may be disturbed by common activities (e.g. gymnasiums, workshops, warehouses)
Access (B)	Areas of the building accessed primarily by Maintenance/Caretaking/Janitorial Staff and within reach without use of a ladder. Includes areas within reach in Boiler Rooms, Electrical Rooms, Janitors Closets, Elevator Rooms, Mechanical Rooms, etc. Includes materials within reach from fixed ladders or catwalks, mezzanines, and accessible pipe chases.
Access (C) and Visible	Areas of the building above 8' - 9' where use of a ladder or scaffold is required to reach the ACM. Only includes ACM that are visible to view without the removal or opening of other building components such as ceiling tiles or service access panels. Visible column on HMIS sheets will say YES.
Access (C) and not Visible	Areas of the building above 8' - 9' where use of a ladder or scaffold is required to reach the ACM. Includes ACM that are not visible to view and require the removal of a building component to see, such as ceilings tiles or access panels to view and access. Includes rarely entered crawl spaces, attic spaces, etc. Observations will be limited to the extent visible from the access points. Visible column on HMIS sheets will say NO.
Access (D)	Areas of the building behind inaccessible solid ceiling systems, walls or equipment etc. where demolition of the ceiling, wall or equipment etc. is required to reach the ACM. Material inaccessible due to height or location or is only accessed under unusual situations. Evaluation of condition and extent of ACM is limited or impossible, depending on the surveyor's ability to visually examine materials in Access D.

4.0 ACTION MATRIX AND DEFINITIONS

Pinchin's evaluation of the viability of a specific asbestos control option is based on the consideration of the friability, condition, accessibility and visibility of a material. The logic used is that damaged ACM located in an area frequently accessed by all building occupants is of a higher priority than damaged ACM located in an infrequently accessed service area. The action matrix considers the potential for fibre release (primarily from friable ACM) and the possible concerns from regulatory bodies and many building occupants to all damaged ACM (including non-friable).

In any building with asbestos, many current regulations require an Asbestos Management Program be implemented. Depending on the condition and the accessibility, more active measures such as repair or removal may be recommended. The following matrix provides guidance for recommended Actions in the absence of renovation or demolition. In the event of construction or maintenance activity which will disturb ACM more aggressive control or removal will be required.

4.1 Action Matrix

The following tables outline the action decisions based on the relationship of assessed factors. Table I applies to friable ACM. Table II applies to non-friable ACM.

Table I Decision Matrix for Friable ACM

	Condition			
Access	**Good**	**Fair**	**Poor**	**Debris**
(A)	Action 5[1]	Action 5[2]	Action 3	Action 1
(B)	Action 7	Action 6[3]	Action 3	Action 1
(C) Visible	Action 7	Action 6	Action 3	Action 2
(C) Not Visible	Action 7	Action 7	Action 4	Action 2
(D)	Action 7	Action 7	Action 7	Action 7

Table II Decision Matrix for Potentially Friable and Non-Friable ACM

	Condition			
Access	**Good**	**Fair**	**Poor**	**Debris**
(A)	Action 7	Action 7[4]	Action 3	Action 1
(B)	Action 7	Action 7	Action 3	Action 1
(C) Visible	Action 7	Action 7	Action 4	Action 2
(C) Not Visible	Action 7	Action 7	Action 4	Action 2
(D)	Action 7	Action 7	Action 7	Action 7

[1] If friable ACM in access (A)/Good condition is not proactively removed Action 7 (Manage) is recommended.
[2] If friable ACM in access (A)/Fair condition is not proactively removed repair is recommended.
[3] If friable ACM in access (B)/Fair condition is likely to be disturbed after repair proactive removal is recommended.
[4] Action 7 is recommended for all non-friable ACM in Fair condition however some clients may wish to repair or take some action primarily for cosmetic reasons

4.2 Action Definitions

The following are the definitions in the Action Matrix Table presented above:

Action Definitions	
Action 1	Clean-Up of ACM Debris Restrict access that is likely to cause a disturbance of the ACM Debris and clean up ACM Debris. Utilize appropriate asbestos precautions.
Action 2	Precautions for Access Which may Disturb ACM Debris Use appropriate means to isolate the debris or to limit entry to the area which may disturb the material. At locations where ACM Debris can remain in place in lieu of removal or clean-up (e.g. Debris on top of ceiling tiles or behind lockable door), Utilize appropriate asbestos precautions to enter the area if this will disturb debris. The precautions will be required until the ACM Debris has been cleaned up.
Action 3	ACM Removal Remove ACM. Utilize asbestos procedures appropriate to the scope of the removal work. Until it is removed, restrict access to the material so it is not disturbed.
Action 4	Precautions for Work Which may Disturb ACM in Poor Condition. Utilize appropriate asbestos precautions if ACM may be disturbed by work on or near ACM. This does not require restricting access to the area, only control of work which may contact or disturb the ACM. Removal is the only viable option if work will disturb ACM.
Action 5	Proactive ACM Removal Remove friable ACM where the presence of friable asbestos in Good condition is not desirable. If friable ACM in Fair condition is not removed, then Repair friable ACM.
Action 6	ACM Repair Repair friable ACM in Fair condition which is not likely to be damaged again or disturbed by normal use of the area or room. Pinchin recommends proactive removal if friable ACM is likely to be damaged or disturbed during normal use of the area or room
Action 7	Asbestos Management Program with Routine Surveillance Implement an Asbestos Management Program, including routine surveillance of ACM. Reassess materials regularly (typically once per year).

Master Template: Methodology Annex A to Appendix I Evaluation Criteria, HAZ, January 10, 2020

APPENDIX III

Location Summary Report

Client:City of Winnipeg Water and Waste Dept
Building Name: Administration Building
Surveyor: Jason Combe
Reassessment Surveyor: Lambert Cruz

Site: 100 Ed Spencer Drive, Winnipeg, MB

Survey Date: 2006-04-25
Last Re-Assessment: 2019-07-29

Location No.	Name or Description	Area ft^2	Floor No.	Notes
1	Administration - Front Entrance	190	Main-Admin	Newer VSF
2	Administration - Reception	240	Main-Admin	Mortar on cinder block walls/floor tiles is presumed asbestos containing. Mortar on stone walls is presumed asbestos containing.
3	Administration - Clerk	170	Main-Admin	
4	Administration - Hallway	300	Main-Admin	
5	Administration - New Main Control Room	640	Main-Admin	Renovated 2019
6	Administration - Lunchroom	540	Main-Admin	Mortar on cinder block and setting compound on ceramic tiles walls are presumed asbestos containing.
7	Administration - Office	108	Main-Admin	
8	Administration - Office	108	Main-Admin	
9	Administration - Washroom	108	Main-Admin	
10	Administration - Washroom	60	Main-Admin	Mortar on cinder block walls is presumed asbestos containing.
11	Administration - Hallway	90	Main-Admin	
12	Administration - Stairwell	100	Main-Admin	
13	Administration - Hallway	145	Main-Admin	
14	Administration - Office	192	Main-Admin	
15	Administration - Office	160	Main-Admin	
16	Administration - Control Room	336	Main-Admin	
17	Administration - Computer Room	212	Main-Admin	
18	Administration - Conference Room	414	Main-Admin	
19	Administration - Hallway	156	Main-Admin	Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.
20	Administration - Hallway	100	Main-Admin	Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.
21	Administration - Stairwell	200	Basement-Admin	Mortar on cinder block walls is presumed asbestos containing.
22	Administration - Hallway	390	Basement-Admin	Mortar on cinder block walls is presumed asbestos containing.
23	Administration - Men's Locker/Washroom	720	Basement-Admin	Setting compound on ceramic walls and floor tiles are presumed asbestos containing.
24	Administration - Women's Locker/Washroom	400	Basement-Admin	Setting compound on ceramic walls and floor tiles are presumed asbestos containing.
25	Administration - Stairwell	300	Basement-Admin	Mortar on cinder block walls is presumed asbestos containing.
26	Administration - Lab Storage	72	Basement-Admin	Mortar on cinder block walls is presumed asbestos containing.
27	Administration - Gym	300	Basement-Admin	Mortar on cinder block walls is presumed asbestos containing.
28	Administration - Storage	96	Basement-Admin	Mortar on cinder block walls is presumed asbestos containing.
29	Administration - Electrical Room	144	Basement-Admin	Mortar on cinder block walls is presumed asbestos containing.
30	Administration - Mechanical Room	288	Basement-Admin	Mortar on cinder block walls is presumed asbestos containing.
31	Administration - Hallway	450	Basement-Admin	Mortar on cinder block walls is presumed asbestos containing.
32	Administration - Stairwell	164	Basement-Admin	Mortar on cinder block walls is presumed asbestos containing.

Location No.	Name or Description	Area ft^2	Floor No.	Notes
33	Administration - Mechanical Room	576	Basement-Admin	Mortar on cinder block walls is presumed asbestos containing.
34	Administration - Computer Storage	204	Basement-Admin	Mortar on cinder block walls is presumed asbestos containing.
35	Administration - Office	32	Basement-Admin	Mortar on cinder block walls is presumed asbestos containing.
36	Administration - Storage	240	Basement-Admin	Mortar on cinder block walls is presumed asbestos containing.
109	Exterior Wall	0	Main	Exterior Wall of Administration Bldg, SEWPCC, Base of Wall Roof needs to be tested prior to any renovation or demolition activities.

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

LOCATIONS LIST

PINCHIN
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Client:City of Winnipeg Water and Waste Dept
Site: 100 Ed Spencer Drive, Winnipeg, MB
Building Name: Grit Building
Surveyor: Jason Combe
Survey Date: 2006-04-25
Reassessment Surveyor: Lambert Cruz
Last Re-Assessment: 2019-07-30

Location No.	Name or Description	Area ft^2	Floor No.	Notes
59	Grit Building - Gallery No. 1	1100	Basement-Grit Building	
60	Grit Building - Gallery No. 3	500	Basement-Grit Building	
61	Grit Building - Gallery No. 2	1100	Basement-Grit Building	
62	Grit Building - Hallway	432	Main-Grit Building	Mortar on cinder block walls is presumed asbestos containing.
63	Grit Building - Grit Tank Room	2880	Main-Grit Building	Mortar on cinder block walls is presumed asbestos containing.
116	Grit Building Exterior	0	NA	Roof needs to be tested prior to any renovation or demolition activities. Plaster under exterior stone in east wall has been confirmed non-asbestos. However the tar underneath the fiberglass under this plaster in the east wall tested positive for asbestos.

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

LOCATIONS LIST

PINCHIN
1.855.PINCHIN www.pinchin.com

Client:City of Winnipeg Water and Waste Dept
Site: 100 Ed Spencer Drive, Winnipeg, MB
Building Name: Oxygen Reactor
Surveyor: Jason Combe
Survey Date: 2006-04-25
Reassessment Surveyor: Lambert Cruz
Last Re-Assessment: 2019-07-30

Location No.	Name or Description	Area ft^2	Floor No.	Notes
87	Oxygen Reactor - Gallery No. 3	1800	Basement-Oxygen Reactor	
111	Exterior Wall of Oxygen Reactor Bldg	0	Main	Exterior Wall of Oxygen Reactor Bldg October 2014 Proj 95079 PLaster in Exterior Wall in South Side is Non-Detected Roof needs to be tested prior to any renovation or demolition activities.

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

LOCATIONS LIST

PINCHIN
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Client:City of Winnipeg Water and Waste Dept
Site: 100 Ed Spencer Drive, Winnipeg, MB
Building Name: Primary Clarifiers
Surveyor: Jason Combe
Survey Date: 2006-04-25
Reassessment Surveyor: Lambert Cruz
Last Re-Assessment: 2019-07-29

Location No.	Name or Description	Area ft^2	Floor No.	Notes
77	Primary Clarifiers - Storage Room (Former Chlorine Room	800	Ground-Primary Clarifiers	Mortar on cinder block walls is presumed asbestos containing.
78	Primary Clarifiers - Hallway	400	Ground-Primary Clarifiers	Mortar on cinder block walls is presumed asbestos containing.
79	Primary Clarifier - East Walkway	900	Ground-Primary Clarifiers	Mortar on cinder block walls is presumed asbestos containing.
80	Primary Clarifier - Centre Walkway	2000	Ground-Primary Clarifiers	Mortar on cinder block walls is presumed asbestos containing.
81	Primary Clarifier - Service Area	3200	Ground-Primary Clarifiers	Mortar on cinder block walls is presumed asbestos containing.
82	Primary Clarifier - Fan Room	300	Second-Primary Clarifiers	Mortar on cinder block walls is presumed asbestos containing.
83	Primary Clarifier - Gallery No. 5	1200	Basement-Primary Clarifiers	
84	Primary Clarifier - Gallery No. 3	2000	Basement-Primary Clarifiers	
85	Primary Clarifiers - Gallery No. 4	600	Basement-Primary Clarifiers	
86	Primary Clarifiers - Stairwell	160	Basement-Primary Clarifiers	No access since 2017.
110	Exterior Wall of Primary Clarifier+Admin+Pump Screen Bldg	0	Main	Roof needs to be tested prior to any renovation or demolition activities. Mortar on stone walls is presumed asbestos containing.

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

LOCATIONS LIST

PINCHIN
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Client:City of Winnipeg Water and Waste Dept **Site: , Winnipeg, MB**
Building Name: PSA Building
Surveyor: LSC **Survey Date: 2014-10-07**
Reassessment Surveyor: **Last Re-Assessment: 2014-10-07**

Location No.	Name or Description	Area ft^2	Floor No.	Notes
112	Exterior Wall of PSA Bldg, room no. Extrior Wa	0	Main	Exterior Wall of PSA Bldg October 2014 Proj 95079 Roof needs to be tested prior to any renovation or demolition activities.

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

LOCATIONS LIST

PINCHIN
1.855.PINCHIN www.pinchin.com

Client:City of Winnipeg Water and Waste Dept
Building Name: Pump and Screen Building
Surveyor: Jason Combe
Reassessment Surveyor: Lambert Cruz

Site: 100 Ed Spencer Drive, Winnipeg, MB

Survey Date: 2006-04-25
Last Re-Assessment: 2019-07-29

Location No.	Name or Description	Area ft^2	Floor No.	Notes
37	Pump and Screen - Storage	1300	Second-Pump and Screen	Confirmed ACM Abated Masonry on cinder block walls remains presumed to contain asbestos
38	Pump and Screen - Mechanical Room	4400	Second-Pump and Screen	new duct insulation installed as per client October 06, 2014. Masonry on cinder block walls is presumed asbestos containing.
39	Pump and Screen - Elevator Machine Room	144	Second-Pump and Screen	Mortar on cinder block walls is presumed asbestos containing.
40	Pump and Screen - Upper Landing Screen Room	225	Second-Pump and Screen	Mortar on cinder block walls is presumed asbestos containing.
41	Pump and Screen - (Old Truck Loading)	1200	Main-Pump and Screen	Mortar on cinder block walls is presumed asbestos containing.
42	Pump and Screen - Screen Room	4800	Main-Pump and Screen	Sample S0023 (S0003A Lab Ref b102715) Mortar on cinder block walls is presumed asbestos containing.
43	Pump and Screen - Hallway	550	Main-Pump and Screen	Mortar on cinder block walls is presumed asbestos containing.
44	Pump and Screen - Viewing Gallery	2025	Main-Pump and Screen	overspray is texture coat Mortar on cinder block walls is presumed asbestos containing. Setting compounds on ceramic floor tiles are presumed asbestos containing
45	Pump and Screen - Stairwell	225	Main-Pump and Screen	Mortar on cinder block walls is presumed asbestos containing.
46	Pump and Screen - Hallway	225	Main-Pump and Screen	Mortar on cinder block walls is presumed asbestos containing.
47	Pump and Screen - Stairwell	400	Main-Pump and Screen	Mortar on cinder block walls is presumed asbestos containing.
48	Pump and Screen - Wet Well	0	Main-Pump and Screen	NO ACCESS - No Access - H2S
49	Pump and Screen - Motor Room	2250	Basement-Pump and Screen	Mortar on cinder block walls is presumed asbestos containing Setting compound on ceramic floor tiles are presumed asbestos containing.
50	Pump and Screen - Electrical Room	2000	Basement-Pump and Screen	Mortar on cinder block walls is presumed asbestos containing.
51	Pump and Screen - Blower Room	2000	Basement-Pump and Screen	Mortar on cinder block walls is presumed asbestos containing.
52	Pump and Screen - Control Room	192	Basement-Pump and Screen	
53	Pump and Screen - Gallery	320	Basement-Pump and Screen	
54	Pump and Screen - Gallery/Hallway	640	Basement-Pump and Screen	Mortar on cinder block walls is presumed asbestos containing.
55	Pump and Screen - Washroom	64	Basement-Pump and Screen	Setting compound on ceramic floor and wall tiles are presumed asbestos containing.
56	Pump and Screen - Storage	64	Basement-Pump and Screen	Mortar on cinder block walls is presumed asbestos containing.
57	Pump and Screen - Pump Well / Pump Level	0	Sub Basement-Pump Well	
58	Pump and Screen - Pump Well	3200	Sub	Mortar on cinder block walls is presumed asbestos containing.

Location No.	Name or Description	Area ft^2	Floor No.	Notes
			Basement-Pump Well	
110	Exterior Wall of Primary Clarifier+Admin+Pump Screen Bldg	0	Main	Exterior Wall of Primary Clarifier+Admin+Pump Screen Bldg October 2014 Proj 95079 Roof needs to be tested prior to any renovation or demolition activities. Grout (masonry mortar/cement/plaster) on stone walls is presumed asbestos containing.

Client:City of Winnipeg Water and Waste Dept
Building Name: Secondary Clarifier
Surveyor: Jason Combe
Reassessment Surveyor: Lambert Cruz

Site: 100 Ed Spencer Drive, Winnipeg, MB

Survey Date: 2006-04-25
Last Re-Assessment: 2019-07-30

Location No.	Name or Description	Area ft^2	Floor No.	Notes
88	Secondary Clarifier - Compressor Room	576	Basement-Secondary Clarifiers	Mortar on cinder block walls is presumed asbestos containing.
89	Secondary Clarifier - Blower Room	576	Basement-Secondary Clarifiers	Mortar on cinder block walls is presumed asbestos containing.
90	Secondary Clarifier - Basement Area/Pump Room	7000	Basement-Secondary Clarifiers	Mortar on cinder block walls is presumed asbestos containing.
91	Secondary Carifier - Control Room	324	Basement-Secondary Clarifiers	
92	Secondary Clarifier - Hallway/Office	360	Main-Secondary Clarifiers	Mortar on cinder block walls is presumed asbestos containing.
93	Secondary Clarifier - Equipment Handling Room (S109)	625	Main-Secondary Clarifiers	Sample S0001, Lab Ref b102715 Sample S0021 (S0001A Lab Ref b102715) Mortar on cinder block walls is presumed asbestos containing.
94	Secondary Clarifier - Scrubber Room (Truck Bay #7 S112)	1200	Main-Secondary Clarifiers	Mortar on cinder block walls is presumed asbestos containing.
95	Secondary Clarifier - Washroom	60	Main-Secondary Clarifiers	Setting compound on ceramic floor and wall tiles are presumed asbestos containing.
96	Secondary Clarifier - Truck Bay	1200	Main-Secondary Clarifiers	Mortar on cinder block walls is presumed asbestos containing.
97	Secondary Clarifier - Electrical Room	600	Main-Secondary Clarifiers	Mortar on cinder block walls is presumed asbestos containing.
101	Secondary Clarifier - North Walkway	350	Main-Secondary Clarifiers	Mortar on cinder block walls is presumed asbestos containing.
102	Secondary Clarifier - Fan Room	1200	Main-Secondary Clarifiers	Mortar on cinder block walls is presumed asbestos containing.
103	Secondary Clarifier - Ventilation Room	1200	Second-Secondary Clarifiers	Mortar on cinder block walls is presumed asbestos containing.
105	Secondary Clarifier S685 adjacent to tank near Electrical Rm	0	Main	Sample S0022 (S0002A Lab Ref b102715) Mortar on cinder block walls is presumed asbestos containing.
106	Secondary Clarifier adjacent to tank near Equipment Handling	0	Main	Area for Survey Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.
107	Secondary Clarifier adjacent to tank near NW side Hallway/Of	0	Main	Mortar on cinder block walls is presumed asbestos containing.
108	Secondary Clarifier adjacent to tank near SW side Hallway/Of	0	Main	Mortar on cinder block walls is presumed asbestos containing.
113	Exterior Wall of Secondary Clarifier Bldg, room no. Exterior W	0	Main	Mortar on stone walls is presumed asbestos containing.

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

LOCATIONS LIST

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Client:City of Winnipeg Water and Waste Dept
Site: 100 Ed Spencer Drive, Winnipeg, MB
Building Name: Service Building
Surveyor: Jason Combe
Survey Date: 2006-04-25
Reassessment Surveyor: Lambert Cruz
Last Re-Assessment: 2019-07-30

Location No.	Name or Description	Area ft^2	Floor No.	Notes
64	Service Building - Stairwell	150	Mezzanine -Service Building	Mortar on cinder block walls is presumed asbestos containing.
65	Service Building - Mechanical Room	1200	Mezzanine -Service Building	Mortar on cinder block walls is presumed asbestos containing.
66	Service Building - Mezzanine Storage	750	Mezzanine -Service Building	Mortar on cinder block walls is presumed asbestos containing.
67	Service Building - Stairwell	150	Mezzanine -Service Building	Mortar on cinder block walls is presumed asbestos containing.
68	Service Building - Work Shop	2400	Main-Service Building	Mortar on cinder block walls is presumed asbestos containing.
69	Service Building - Generator Room	450	Main-Service Building	Mortar on cinder block walls is presumed asbestos containing.
70	Service Building - Storage Room	300	Main-Service Building	Mortar on cinder block walls is presumed asbestos containing.
71	Service Building - Electrical Room	400	Main-Service Building	Mortar on cinder block walls is presumed asbestos containing.
72	Service Building - Storage Room	600	Main-Service Building	Piping - domestic water installed 1993 Mortar on cinder block walls is presumed asbestos containing.
73	Service Building - Washroom	130	Main-Service Building	Mortar on cinder block walls is presumed asbestos containing.
74	Service Building - Stairwell	160	Main-Service Building	Mortar on cinder block walls is presumed asbestos containing.
75	Service Building - Control Room	224	Basement-Service Building	Mortar on cinder block walls is presumed asbestos containing.
76	Service Building - Boiler Room	3600	Basement-Service Building	Mortar on cinder block walls is presumed asbestos containing.
115	Exterior Wall of Service Bldg, room no. Exterior W	0	Main	Exterior Wall of Service Bldg October 2014 Proj 95079 Roof needs to be tested prior to any renovation or demolition activities. Mortar on stone walls is presumed asbestos containing.

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

LOCATIONS LIST

PINCHIN
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Client:City of Winnipeg Water and Waste Dept **Site: , Winnipeg,**
Building Name: Standby Power Building
Surveyor: LSC **Survey Date: 2014-10-07**
Reassessment Surveyor: **Last Re-Assessment:**

Location No.	Name or Description	Area ft^2	Floor No.	Notes
114	Exterior Wall of Standby Power Bldg , room no. Extrior Wa	0	Main	Exterior Wall of Standby Power Bldg October 2014 Proj 95079 Roof needs to be tested prior to any renovation or demolition activities.

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

LOCATIONS LIST

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Client:City of Winnipeg Water and Waste Dept
Site: 100 Ed Spencer Drive, Winnipeg, MB
Building Name: Unox Building
Surveyor: Jason Combe
Survey Date: 2006-04-25
Reassessment Surveyor: Lambert Cruz
Last Re-Assessment: 2019-07-30

Location No.	Name or Description	Area ft^2	Floor No.	Notes
98	Unox - Unox Equipment Room	3000	Ground-Unox Building	Mortar on cinder block walls is presumed asbestos containing. Setting compound on ceramic floor tiles is presumed asbestos containing.
99	Unox - PSA Compressor Room	0	Ground-Unox Building	Mortar on cinder block walls is presumed asbestos containing. Setting compound on ceramic floor tiles is presumed asbestos containing.
100	Unox - Oxygen Reactor Junction Chamber	1000	Ground-Unox Building	Mortar on cinder block walls is presumed asbestos containing.
104	Unox Bldg - Ground - Garage/Truck Bay (is location 96 as wel	1500	Ground-Unox Building	Ground - Garage/Truck Bay (is location 96 as well)

APPENDIX IV

Asbestos Material Summary Report / Sample Log

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

PINCHIN
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Client:City of Winnipeg Water and Waste Dept **Site: 100 Ed Spencer Drive, Winnipeg, MB** **Building Name: Administration Building** **Surveyor: Jason Combe** **Survey Date: 2006-04-25**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Phase	LF	SF	EA	%	Type	Positive
Asbestos	S0001	CEILING | CEILING TILES (LAY-IN) | ACOUSTIC TILE / AT-2 / LOCATION 5	3,5,7,8		0	1029	0	0	None Detected	No
Asbestos	S0002	CEILING | CEILING TILES (LAY-IN) | ACOUSTIC TILE / AT-5 / LOCATION 18	18		0	414	0	0	None Detected	No
Asbestos	S0003	CEILING | CEILING TILES (LAY-IN) | ACOUSTIC TILE / AT-3 / LOCATION 23	4,9,12,13,14,15,16,17,19,23,24		0	2741	0	0	None Detected	No
Asbestos	S0004	CEILING | N/A | ACOUSTIC TILE / AT-1 / LOCATION 1	1,2		0	1240	0	0	None Detected	No
Asbestos	S0005	CEILING | CEILING TILES (LAY-IN) | ACOUSTIC TILE / AT-4 / LOCATION 26	6,19,22,26,27,28,31,34,36		0	2316	0	0	None Detected	No
Asbestos	S0006	PIPING | PARGING OVER FIBREGLASS | PARGING CEMENT / FITTING / HWS / LOCATION 21	21		0	0	1	0	None Detected	No
Asbestos	S0007	PIPING | PARGING OVER FIBREGLASS | PARGING / FITTING / CWS / LOCATION 30 COMMENT: FIBREGLASS IS PRESENT ON THE SURFACE OF THIS SAMPLE.	30		0	0	1	0	None Detected	No
Asbestos	V0008	MECHANICAL EQUIPMENT | FIBREGLASS W/PARGING | PARGING / AHU / LOCATION 30 COMMENT: STYROFOAM IS PRESENT ON THE SURFACE OF THIS SAMPLE.	30		0	320	0	0	Chrysotile	Yes
Asbestos	S0009	CEILING | CEILING TILES (LAY-IN) | ACOUSTIC TILE / AT-6 / LOCATION 23	23,24		0	64	0	0	None Detected	No
Asbestos	S0027	WALL | PLASTER | PLASTER, EXTERIOR WALL, ADMIN BLDG BY FRONT (SAMPLED OCTOBER 6, 2014 AS S001A, S001B A-B, S0001C)	109		0	750	0	0	Chrysotile	Yes
Asbestos	V9000	CEILING | DRYWALL AND JOINT COMPOUND | CONFIRMED ACM JULY 2021 289439	11		0	2	0	0	Confirmed Asbestos	Yes
Asbestos	V9000	WALL | DRYWALL (NO COMPOUND)	19		0	0	0	100	Confirmed Asbestos	Yes
Asbestos	V9500	CEILING | DRYWALL (NO COMPOUND) |	1,2,3,10,11		0	0	0	100	Presumed Asbestos	Yes
Asbestos	V9500	CEILING | DRYWALL AND JOINT COMPOUND |	12,32		0	0	0	29	Presumed Asbestos	Yes
Asbestos	V9500	FLOOR | MORTAR |	23,24		0	0	0	22	Presumed Asbestos	Yes
Asbestos	V9500	PIPING | PARGING OVER FIBREGLASS |	21,22,23,24,25,26,27,28,30,34,36		0	0	136	0	Presumed Asbestos	Yes
Asbestos	V9500	WALL | DRYWALL (NO COMPOUND) |	1,2,3,4,6,7,8,9,10,11,12,13,14,15,16,17,18,27		0	0	0	65	Presumed Asbestos	Yes
Asbestos	V9500	WALL | DRYWALL AND JOINT COMPOUND |	25,32		0	0	0	7	Presumed Asbestos	Yes
Asbestos	V9500	WALL | MASONRY |	7,8		0	0	0	7	Presumed	Yes

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

HAZMAT	Sample No	System/Material/Sample Description	Locations	Phase	LF	SF	EA	%	Type	Positive
									Asbestos	
Asbestos	V9500	WALL | MORTAR	2,6,10,19,20,21,22,23,24,25,26,27,28,29,30,31 32,33,34,35,36,109		0	0	0	43	Presumed Asbestos	Yes
Asbestos	V0000	CEILING | DRYWALL (NO COMPOUND) |	35		0	0	0	100	Non Asbestos	No
Asbestos	V0000	FLOOR | CONCRETE (POURED) |	26		0	72	0	0	Non Asbestos	No
Asbestos	V0000	FLOOR | VINYL SHEET FLOORING |	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19 20,21,22,25,27,28,31,32,34,35,36		0	6555	0	0	Non Asbestos	No
Asbestos	V0000	PIPING | FIBREGLASS |	33		0	0	0	100	Non Asbestos	No
Asbestos	V0000	PIPING | PARGING OVER FIBREGLASS	33		0	0	0	100	Non Asbestos	No

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

PINCHIN
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Client:City of Winnipeg Water and Waste Dept **Site: 100 Ed Spencer Drive, Winnipeg, MB** **Building Name: Grit Building** **Surveyor: Jason Combe** **Survey Date: 2006-04-25**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Phase	LF	SF	EA	%	Type	Positive
Asbestos	S0027	WALL | PLASTER | PLASTER, EXTERIOR EAST CONCRETE WALL, ID # 1B1, GRIT BLDG., (SAMPLED MAY 22, 2015 AS S0011 - PROJ 105170)	116		0	0	0	100	None Detected	No
Asbestos	S0028	WALL | MORTAR | MORTAR, EXTERIOR EAST CONCRETE WALL STONE BRICKS, ID # 1B2, GRIT BLDG.(SAMPLED MAY 22, 2015 AS S0012 - PROJ 105170)	116		0	0	0	100	None Detected	No
Asbestos	S0029	WALL | PLASTER | PLASTER, WEST CONCRETE WALL, ID # 1C, GALLERY 1, LOC. 59, BASEMENT, GRIT BUILDING .(SAMPLED MAY 22, 2015 AS S0013A - PROJ 105170)	59		0	0	0	100	None Detected	No
Asbestos	S0030	WALL | PLASTER | PLASTER, WEST CONCRETE WALL, ID # 1D1, GALLERY 2 LOC. 63, BASEMENT, GRIT BUILDING .(SAMPLED MAY 22, 2015 AS S0013B - PROJ 105170)	63		0	0	0	100	None Detected	No
Asbestos	S0031	WALL | PLASTER | PLASTER, EAST CONCRETE WALL, ID # 1D2, GALLERY 2 LOC. 63, BASEMENT, GRIT BUILDING .(SAMPLED MAY 22, 2015 AS S0013C - PROJ 105170)	63		0	0	0	100	None Detected	No
Asbestos	S0032	WALL | PLASTER | PLASTER, EXTERIOR EAST CONCRETE WALL, ID # 1B1, GRIT BLDG. (SAMPLED JUNE 17, 2015 AS S0011A-B - PROJ 105170)	116		0	0	0	100	None Detected	No
Asbestos	S0033	WALL | PLASTER | PLASTER, UNDER STONE OF EXTERIOR WALL, EAST SIDE OF GRIT BLDG. (SAMPLED MARCH 7, 2018 AS S001A-C PROJ 220802, LAB DOC. B185704)	116		0	0	0	100	None Detected	No
Asbestos	S0034	WALL | TAR | BLACK TAR MASTIC, UNDER FIBERGLASS BENEATH THE PLASTER UNDER THE STONE OF THE EXTERIOR WALL, EAST SIDE OF GRIT BUILDING (SAMPLED MARCH 7, 2018 AS S002A-C PROJ 220802, LAB DOC. B185704)	116		0	0	0	100	Chrysotile	Yes
Asbestos	V9500	PIPING | PARGING OVER FIBREGLASS |	59,60,61		0	0	49	0	Presumed Asbestos	Yes
Asbestos	V9500	WALL | MORTAR	62,63		0	0	0	100	Presumed Asbestos	Yes

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

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Client:City of Winnipeg Water and Waste Dept **Site: 100 Ed Spencer Drive, Winnipeg, MB** **Building Name: Oxygen Reactor** **Surveyor: Jason Combe** **Survey Date: 2006-04-25**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Phase	LF	SF	EA	%	Type	Positive
Asbestos	S0027	WALL | PLASTER | PLASTER, EXTERIOR WALL, BOTTOM, OXYGEN REACTOR BLDG(SAMPLED OCTOBER 7, 2014 AS S0003A A-B, S0003B A-B, S0003C A-B)	111		0	200	0	0	Chrysotile	Yes
Asbestos	S0028	FLOOR | PLASTER | PLASTER, EXTERIOR NORTH CONCRETE FLOOR, ID # 4A1, R1/R2 OXYGEN REACTOR BLDG., (SAMPLED MAY 22, 2015 AS S0008A - PROJ 105170)	111		0	0	0	100	None Detected	No
Asbestos	S0029	FLOOR | PLASTER | PLASTER, EXTERIOR SOUTH CONCRETE FLOOR, ID # 4A2, R3/R4 OXYGEN REACTOR BLDG.(SAMPLED MAY 22, 2015 AS S0008B - PROJ 105170)	111		0	0	0	100	None Detected	No
Asbestos	S0030	WALL | PLASTER | PLASTER, EXTERIOR SOUTH WALL, OXYGEN REACTOR BLDG.(SAMPLED JULY 2, 2015 AS S0030A TO C - PROJ 105170)	111		0	0	0	100	None Detected	No
Asbestos	S0031	OTHER | CONCRETE (POURED) | ROOFING MATERIAL, ROOF DECK, BUILDING 1974 (B179508 DOCUMENT - SAMPLED OCT 30 2017 AS S0001A-C - PROJ. 214132) HOMOGENOUS, GREY, SOFT, CEMENTIOUS MATERIAL. - OXYGEN REACTOR BUILDING - NORTH SIDE ROOF DECK.	111		0	0	0	100	None Detected	No
Asbestos	S0032	OTHER | CONCRETE (POURED) | ROOFING MATERIAL, ROOF DECK, BUILDING 1990S (B179508 DOCUMENT - SAMPLED OCT 30 2017 AS S0002A-C - PROJ. 214132) HOMOGENOUS, BEIGE/GREY, SOFT, CEMENTIOUS MATERIAL. - OXYGEN REACTOR BUILDING - SOUTH SIDE ROOF DECK.	111		0	0	0	100	None Detected	No
Asbestos	V9500	PIPING | PARGING OVER FIBREGLASS	87		0	0	22	0	Presumed Asbestos	Yes

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

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Client:City of Winnipeg Water and Waste Dept **Site: 100 Ed Spencer Drive, Winnipeg, MB** **Building Name: Primary Clarifiers** **Surveyor: Jason Combe** **Survey Date: 2006-04-25**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Phase	LF	SF	EA	%	Type	Positive
Asbestos	V0010	DUCT, MECHANICAL EQUIPMENT | FIBREGLASS W/PARGING | LOCATION 37 PARGING/FAI/LOCATION 37 COMMENT: COTTON FABRIC REINFORCEMENT AND FIBREGLASS ARE PRESENT ON THE SURFACE OF THIS SAMPLE.	79,81		0	70	0	0	Chrysotile	Yes
Asbestos	S0027	WALL | PLASTER | PLASTER, EXTERIOR WALL, PRIMARY CLARIFIER+ADMIN+PUMP SCREEN BLDG(SAMPLED OCTOBER 6, 2014 AS S0002A A-B, S0002B A-B, S0002C A-B)	110		0	600	0	0	Chrysotile	Yes
Asbestos	S0028	PIPING | PARGING OVER FIBREGLASS | PARGING CEMENT, FITTING, HOT WATER SUPPLY, ID # 9A, STAIRWELL, LOC. # 79, (SAMPLED MAY 19, 2015 AS S0001 - PROJ 105170)	79		0	0	1	0	Asbestos Containing	Yes
Asbestos	S0029	PIPING | PARGING OVER FIBREGLASS | FIBREGLASS, FITTING, GLYCOL RETURN, ID # 9D, STAIRWELL, LOC. # 79, (SAMPLED MAY 19, 2015 AS S0002 - PROJ 105170)	79		0	0	1	0	None Detected	No
Asbestos	S0030	PIPING | PARGING OVER FIBREGLASS | FIBREGLASS, FITTING, GLYCOL SUPPLY, ID # 9E, STAIRWELL, LOC. # 79, (SAMPLED MAY 19, 2015 AS S0003 - PROJ 105170)	79		0	0	1	0	None Detected	No
Asbestos	S0032	WALL | MASONRY | PLASTER, EAST CONCRETE WALL, ID # 2C1, STAIRWELL BASEMENT, LOC. # 83, (SAMPLED MAY 19, 2015 AS S0004B - PROJ 105170)	79,83		0	0	0	0	None Detected	No
Asbestos	S0033	WALL | CONCRETE (POURED) | PLASTER, NORTH EAST CONCRETE WALL, ID # 2C2, GALLERY 4, LOC. # 85, (SAMPLED MAY 19, 2015 AS S0004C - PROJ 105170)	85		0	0	0	0	None Detected	No
Asbestos	S0034	PIPING | PARGING OVER FIBREGLASS | PARGING CEMENT, FITTING, HOT WATER SUPPLY, ID # 9F, GALLERY 4, LOC. # 85,(SAMPLED MAY 19, 2015 AS S0005 - PROJ 105170)	85		0	0	1	0	None Detected	No
Asbestos	S0035	PIPING | PARGING OVER FIBREGLASS | PARGING CEMENT, FITTING, HOT WATER RETURN, ID # 9G, GALLERY 4, LOC. # 85, ,(SAMPLED MAY 19, 2015 AS S0006 - PROJ 105170)	85		0	0	1	0	None Detected	No
Asbestos	S0036	PIPING | FIBREGLASS | PARGING ON FIBREGLASS, STRAIGHT PIPE, HOT WATER RETURN, ID # 9H, GALLERY 4, LOC. # 85(SAMPLED MAY 19, 2015 AS S0007 - PROJ 105170)	85		0	0	0	0	None Detected	No
Asbestos	S0037	WALL | PLASTER | PLASTER, SOUTH CONCRETE WALL, ID # 2B, PIPE GALLERY 5, LOC. 83, BASEMENT, PRIMARY CLARIFIER BUILDING	83		0	0	0	100	None Detected	No

HAZMAT	Sample No	System/Material/Sample Description	Locations	Phase	LF	SF	EA	%	Type	Positive
		(SAMPLED MAY 22, 2015 AS S0017 - PROJ 105170)								
Asbestos	S0038	WALL | PLASTER | PLASTER, NORTH CONCRETE WALL, ID # 2A, FUTURE TUNNEL DOOR TO HRC, PIPE GALLERY 5, LOC. 83, BASEMENT, PRIMARY CLARIFIER BUILDING (SAMPLED MAY 22, 2015 AS S0018 - PROJ 105170)	83		0	0	0	100	None Detected	No
Asbestos	V9500	PIPING | PARGING OVER FIBREGLASS |	77,79,83,84,85,86		0	0	143	0	Presumed Asbestos	Yes
Asbestos	V9500	WALL | MORTAR	77,78,79,80,81,82,110		0	0	0	100	Presumed Asbestos	Yes

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

PINCHIN
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Client:City of Winnipeg Water and Waste Dept **Site: , Winnipeg, MB** **Building Name: PSA Building** **Surveyor: LSC** **Survey Date: 2014-10-07**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Phase	LF	SF	EA	%	Type	Positive
Asbestos	S0001	WALL | PLASTER | PLASTER, EXTERIOR WALL, PSA BLDG(SAMPLED OCTOBER 7, 2014 AS S0004A-B)	112		0	200	0	0	None Detected	No
Asbestos	V9000	WALL | MARBLE	112		0	0	0	100	Confirmed Asbestos	Yes

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

PINCHIN
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Client:City of Winnipeg Water and Waste Dept **Site: 100 Ed Spencer Drive, Winnipeg, MB** **Building Name: Pump and Screen Building** **Surveyor: Jason Combe** **Survey Date: 2006-04-25**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Phase	LF	SF	EA	%	Type	Positive
Asbestos	V0005	CEILING | CEILING TILES (LAY-IN) | LOCATION 26 ACOUSTIC TILE/AT-4/ LOCATION 26	52		0	192	0	0	None Detected	No
Asbestos	V0006	PIPING | PARGING OVER FIBREGLASS | LOCATION 21 PARGING CEMENT/FITTING/HWS/LOCATION 21	38,50		0	0	62	0	None Detected	No
Asbestos	S0011	STRUCTURE | TEXTURE COAT | TEXTURE COAT / CEILING / LOCATION 44	44,49		0	4275	0	0	Chrysotile	Yes
Asbestos	S0012	DUCT | PARGING OVER FIBREGLASS | PARGING / SA / LOCATION 51	51		0	1200	0	0	Chrysotile	Yes
Asbestos	V0014	PIPING | PARGING OVER FIBREGLASS | LOCATION 73 PARGING/HWR/LOCATION 73	38		0	0	49	0	Chrysotile	Yes
Asbestos	S0023	DUCT | FIBREGLASS W/PARGING | LOC. 42 PARGING CEMENT FROM DUCT IN GRIT SCREEN ROOM, HOMOGENEOUS, GREY, SOFT, PARGING CEMENT (SAMPLE 0003A IN B102715 ATTACHED DOCUMENT)	42		0	160	0	0	Chrysotile	Yes
Asbestos	S0024	PIPING | FIBREGLASS W/PARGING | PARGING CEMENT OVER FIBRE GLASS, HOT WATER RETURN STRAIGHT PIPE, PUMP AND SCREEN MECHANICAL ROOM (LOCATION 38), PUMP AND SCREEN BUILDING, SOUTH END WATER POLLUTION CONTROL CENTRE (BASE ON PROJ. 89667)	38		0	0	0	1	Chrysotile	Yes
Asbestos	S0027	WALL | PLASTER | PLASTER, EXTERIOR WALL, PRIMARY CLARIFIER+ADMIN+PUMP SCREEN BLDG(SAMPLED OCTOBER 6, 2014 AS S0002A A-B, S0002B A-B, S0002C A-B)	110		0	100	0	0	Chrysotile	Yes
Asbestos	S0028	PIPING | PARGING OVER FIBREGLASS | PARGING CEMENT, FITTINGS, HOT WATER SUPPLY PIPE, ID # 1E1, MECHANICAL ROOM, LOC. # 38, 2ND FLR., PUMP & SCREEN BLDG. (SAMPLED MAY 22, 2015 AS S0014A-B - PROJ 105170)	38		0	0	1	0	None Detected	No
Asbestos	S0029	PIPING | PARGING OVER FIBREGLASS | PARGING CEMENT, FITTINGS, GLYCOL SUPPLY PIPE, ID # 1E2, MECHANICAL ROOM, LOC. # 38, 2ND FLR., PUMP & SCREEN BLDG. (SAMPLED MAY 22, 2015 AS S0015A-B - PROJ 105170)	38		0	0	2	0	None Detected	No
Asbestos	S0030	PIPING | PARGING CEMENT | PARGING CEMENT, FITTINGS, GLYCOL RETURN PIPE, ID # 1E3, MECHANICAL ROOM, LOC. # 38, 2ND FLR., PUMP & SCREEN BLDG. (SAMPLED MAY 22, 2015 AS S0016A-C - PROJ 105170)	38		0	0	3	0	None Detected	No
Asbestos	S0031	WALL | PLASTER | PLASTER, EXTERIOR EAST CONCRETE WALL, ID # 1F, PUMP & SCREEN BLDG. (SAMPLED JUNE 17, 2015 AS S0031 - PROJ 105170)	110		0	0	0	100	None Detected	No
Asbestos	V9500	CEILING | PLASTER |	55		0	0	0	100	Presumed	Yes

HAZMAT	Sample No	System/Material/Sample Description	Locations	Phase	LF	SF	EA	%	Type	Positive
									Asbestos	
Asbestos	V9500	FLOOR | MORTAR |	44,49,55		0	0	0	75	Presumed Asbestos	Yes
Asbestos	V9500	PIPING | FIBREGLASS W/PARGING |	38		0	0	0	20	Presumed Asbestos	Yes
Asbestos	V9500	PIPING | PARGING CEMENT |	38		0	0	16	0	Presumed Asbestos	Yes
Asbestos	V9500	PIPING | PARGING OVER FIBREGLASS |	37,38,43,45,47,51,54,55		0	0	202	0	Presumed Asbestos	Yes
Asbestos	V9500	WALL | MORTAR |	37,38,39,40,41,42,43,44,45,46,47,49,50,51,54,55 56,58,110		0	0	0	80	Presumed Asbestos	Yes
Asbestos	V9500	WALL | PLASTER	43		0	0	0	4	Presumed Asbestos	Yes
Asbestos	V0000	DUCT | FIBREGLASS |	42		0	0	0	0	Non Asbestos	No
Asbestos	V0000	FLOOR | VINYL SHEET FLOORING |	52		0	192	0	0	Non Asbestos	No
Asbestos	V0000	PIPING | FIBREGLASS	37		0	0	0	100	Non Asbestos	No

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

PINCHIN
1.855.PINCHIN www.pinchin.com

Client:City of Winnipeg Water and Waste Dept **Site: 100 Ed Spencer Drive, Winnipeg, MB** **Building Name: Secondary Clarifier** **Surveyor: Jason Combe** **Survey Date: 2006-04-25**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Phase	LF	SF	EA	%	Type	Positive
Asbestos	V0005	CEILING | CEILING TILES (LAY-IN) | LOCATION 26 ACOUSTIC TILE/AT-4/ LOCATION 26	91,92		0	702	0	0	None Detected	No
Asbestos	V0007	PIPING | PARGING OVER FIBREGLASS | LOCATION 30 PARGING/FITTING/CWS/LOCATION 30 COMMENT: FIBREGLASS IS PRESENT ON THE SURFACE OF THIS SAMPLE.	103		0	0	8	0	None Detected	No
Asbestos	V0010	DUCT | FIBREGLASS W/PARGING | LOCATION 37 PARGING/FAI/LOCATION 37 COMMENT: COTTON FABRIC REINFORCEMENT AND FIBREGLASS ARE PRESENT ON THE SURFACE OF THIS SAMPLE.	89,90,101		0	1150	0	100	Chrysotile	Yes
Asbestos	S0021	DUCT | FIBREGLASS W/PARGING | LOC. 93 PARGING CEMENT FROM DUCT IN EQUIPMENT HANDLING RM, HOMOGENEOUS, GREY, SOFT, PARGING CEMENT (SAMPLE 0001A IN B102715 ATTACHED DOCUMENT)	93		0	100	0	0	Chrysotile	Yes
Asbestos	S0027	WALL | PLASTER | PLASTER, EXTERIOR WALL, SECONDARY CLARIFIER BLDG(SAMPLED OCTOBER 7, 2014 AS S0005A A-B, S0005B, S0005C A-B) PROJ NO. 95079 LAB DOC 1420563	113		0	1000	0	0	Chrysotile	Yes
Asbestos	S0028	WALL | PLASTER | PLASTER, EXTERIOR WEST CONCRETE WALL, ID # 3E1, SECONDARY CLARIFIER #3 BLDG., (SAMPLED MAY 22, 2015 AS S0009 - PROJ 105170)	113		0	0	0	100	None Detected	No
Asbestos	S0029	WALL | MORTAR | MORTAR, EXTERIOR WEST CONCRETE WALL STONE BRICKS, ID # 3E2, SECONDARY CLARIFIER#3 BLDG(SAMPLED MAY 22, 2015 AS S0010 - PROJ 105170)	113		0	0	0	0	None Detected	No
Asbestos	S0030	DUCT | FIBREGLASS W/PARGING | FIBREGLASS DUCT INSULATION, DUCT OF AHU, ID # 3C, ADJ. TO TANK NEAR ELECTRICAL ROOM, LOC. 105, SECONDARY CLARIFIER BUILDING (SAMPLED MAY 22, 2015 AS S0019 - PROJ 105170)	105		0	0	0	100	None Detected	No
Asbestos	S0031	PIPING | PARGING CEMENT | PARGING CEMENT, FITTINGS, HOT WATER RETURN PIPE FOR R682 UNIT, ID # 3B1, VENTILATION ROOM, LOC. # 103, SECONDARY CLARIFIER BLDG. (SAMPLED MAY 22, 2015 AS S0020A-C - PROJ 105170)	103		0	0	3	0	None Detected	No
Asbestos	S0032	PIPING | PARGING OVER FIBREGLASS | PARGING CEMENT, FITTINGS, HOT WATER SUPPLY PIPE FOR R682 UNIT, ID # 3B2, VENTILATION ROOM, LOC. # 103, SECONDARY CLARIFIER BLDG. (SAMPLED MAY 22, 2015 AS S0021A-C - PROJ 105170)	103		0	0	4	0	None Detected	No
Asbestos	S0033	WALL | PLASTER | PLASTER (A) AND TAR (B), INSIDE	113		0	0	0	0	None	No

HAZMAT	Sample No	System/Material/Sample Description	Locations	Phase	LF	SF	EA	%	Type	Positive
		OF EXTERIOR WALL, NORTH SIDE OF CLARIFIER BLDG. (SAMPLED MARCH 7, 2018 AS S003A-C PROJ 220802, LAB DOC. B185704)							Detected	
Asbestos	V9500	DUCT | FIBREGLASS W/PARGING |	93		0	100	0	0	Presumed Asbestos	Yes
Asbestos	V9500	FLOOR | MORTAR |	95		0	0	0	100	Presumed Asbestos	Yes
Asbestos	V9500	PIPING | PARGING CEMENT |	103		0	0	54	0	Presumed Asbestos	Yes
Asbestos	V9500	PIPING | PARGING OVER FIBREGLASS |	90,94,95		0	0	73	0	Presumed Asbestos	Yes
Asbestos	V9500	WALL | DRYWALL (NO COMPOUND) |	91		0	0	0	50	Presumed Asbestos	Yes
Asbestos	V9500	WALL | MORTAR	88,89,90,92,93,94,95,96,97,101,102,103,105,106 107,108,113		0	0	0	89	Presumed Asbestos	Yes
Asbestos	V0000	FLOOR | VINYL SHEET FLOORING |	91,92		0	702	0	0	Non Asbestos	No
Asbestos	V0000	MECHANICAL EQUIPMENT | NOT INSULATED	103		0	0	6	0	Non Asbestos	No

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

PINCHIN
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Client:City of Winnipeg Water and Waste Dept **Site: 100 Ed Spencer Drive, Winnipeg, MB** **Building Name: Service Building** **Surveyor: Jason Combe** **Survey Date: 2006-04-25**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Phase	LF	SF	EA	%	Type	Positive
Asbestos	V0005	CEILING | CEILING TILES (LAY-IN) | LOCATION 26 ACOUSTIC TILE/AT-4/ LOCATION 26	75		0	224	0	0	None Detected	No
Asbestos	V0010	DUCT | FIBREGLASS W/PARGING | LOCATION 37 PARGING/FAI/LOCATION 37 COMMENT: COTTON FABRIC REINFORCEMENT AND FIBREGLASS ARE PRESENT ON THE SURFACE OF THIS SAMPLE.	66,68,71,73,76		0	475	0	0	Chrysotile	Yes
Asbestos	S0013	DUCT | MAGNESIA BLOCK | MAG BLOCK / DIESEL EXHAUST / LOCATION 69	69		12	0	0	0	None Detected	No
Asbestos	S0015	MECHANICAL EQUIPMENT | FIBREGLASS W/PARGING | PARGING / EXCH / LOCATION 76	76		0	25	0	0	Chrysotile	Yes
Asbestos	S0016	MECHANICAL EQUIPMENT | PARGING OVER FIBREGLASS | PARGING / BREECHING / LOCATION 76 COMMENT: MINERAL WOOL IS PRESENT ON THE SURFACE OF THIS SAMPLE.	76		0	1200	0	0	Chrysotile	Yes
Asbestos	S0017	MECHANICAL EQUIPMENT | REFRACTORY CERAMIC FIBRE | REFRACTORY BRICK - PARGING / BOILER B653 / LOCATION 76 - 3 PHASES	76		0	90	0	0	None Detected	No
Asbestos	S0027	WALL | PLASTER | PLASTER, EXTERIOR WALL, SERVICE BLDG(SAMPLED OCTOBER 7, 2014 AS S0007A, S0007B, S0007C A-B) PROJ NO. 95079	115		0	120	0	0	Chrysotile	Yes
Asbestos	V9500	PIPING | PARGING CEMENT |	68		0	0	2	0	Presumed Asbestos	Yes
Asbestos	V9500	PIPING | PARGING OVER FIBREGLASS |	65,67,68,69,70,71,76		0	0	386	0	Presumed Asbestos	Yes
Asbestos	V9500	WALL | MARBLE |	115		0	0	0	100	Presumed Asbestos	Yes
Asbestos	V9500	WALL | MORTAR	64,65,66,67,68,69,70,71,72,73,74,75,76,115		0	0	0	93	Presumed Asbestos	Yes
Asbestos	V0000	DUCT | FIBREGLASS |	68		0	60	0	0	Non Asbestos	No
Asbestos	V0000	FLOOR | VINYL SHEET FLOORING	75		0	224	0	0	Non Asbestos	No

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

PINCHIN
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Client:City of Winnipeg Water and Waste Dept **Site: , Winnipeg,** **Building Name: Standby Power Building** **Surveyor: LSC** **Survey Date: 2014-10-07**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Phase	LF	SF	EA	%	Type	Positive
Asbestos	S0001	WALL | PLASTER | PLASTER, EXTERIOR WALL, STANDBY POWER BLDG(SAMPLED OCTOBER 7, 2014 AS S0006A-C) PROJ NO. 95079	114		0	0	0	100	None Detected	No
Asbestos	V9000	WALL | MARBLE	114		0	0	0	100	Confirmed Asbestos	Yes

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

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Client:City of Winnipeg Water and Waste Dept **Site: 100 Ed Spencer Drive, Winnipeg, MB** **Building Name: Unox Building** **Surveyor: Jason Combe** **Survey Date: 2006-04-25**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Phase	LF	SF	EA	%	Type	Positive
Asbestos	S0027	PIPING | FIBREGLASS | FIBREGLASS PIPE INSULATION, FITTINGS, SKID PROCESS AIR PIPET, ID # 5F1, UNOX EQUIPMENT PSA ROOM, LOC. # 98, UNOX BLDG. (SAMPLED MAY 22, 2015 AS S0022 - PROJ 105170)	98		0	0	0	0	None Detected	No
Asbestos	S0028	PIPING | FIBREGLASS | FIBREGLASS PIPE INSULATION, STRAIGHT, SKID PROCESS AIR PIPET, ID # 5F2, UNOX EQUIPMENT PSA ROOM, LOC. # 98, UNOX BLDG. (SAMPLED MAY 22, 2015 AS S0023 - PROJ 105170)	98		0	0	0	0	None Detected	No
Asbestos	S0029	FLOOR | CERAMIC TILES | CERAMIC TILE, GREY, FLOOR, PSA SKID NO. 1, HOUSEKEEPING PAD, ID # 5A1, UNOX EQUIPMENT PSA ROOM, LOC. # 98, UNOX BLDG. (SAMPLED MAY 22, 2015 AS S0024 - PROJ 105170)	98		0	0	0	0	None Detected	No
Asbestos	S0030	FLOOR | PLASTER | PLASTER, CONCRETE FLOOR, PSA SKID NO. 1, HOUSEKEEPING PAD, ID # 5A2, UNOX EQUIPMENT PSA ROOM, LOC. # 98, UNOX BLDG. (SAMPLED MAY 22, 2015 AS S0025 - PROJ 105170)	98		0	0	0	100	None Detected	No
Asbestos	S0031	CEILING | CEILING TILES (LAY-IN) | CEILING TILES, CEILING, ID # 5E, PSA COMPRESSOR ROOM, LOC. # 99, UNOX BLDG. (SAMPLED MAY 22, 2015 AS S0026 - PROJ 105170)	99		0	0	0	100	None Detected	No
Asbestos	S0032	PIPING | FIBREGLASS | FIBREGLASS PIPE INSULATION, FITTINGS, PROCESS AIR PIPE FOR AIR COMPRESSOR R340AC, ID # 5D1, PSA COMPRESSOR ROOM, LOC. # 99, UNOX BLDG. (SAMPLED MAY 22, 2015 AS S0027 - PROJ 105170)	99		0	0	0	0	None Detected	No
Asbestos	S0033	PIPING | FIBREGLASS | FIBREGLASS PIPE INSULATION, STRAIGHT, PROCESS AIR PIPE FOR AIR COMPRESSOR R340AC, ID # 5D2, PSA COMPRESSOR ROOM, LOC. # 99, UNOX BLDG. (SAMPLED MAY 22, 2015 AS S0028 - PROJ 105170)	99		0	0	0	0	None Detected	No
Asbestos	S0034	PIPING | FIBREGLASS | FIBREGLASS PIPE INSULATION, FITTINGS, WATER SUPPLY PIPE, COOLING TOWERS R466FN & S649FN, ID # 5C1, PSA COMPRESSOR ROOM, LOC. # 99, UNOX BLDG. (SAMPLED MAY 22, 2015 AS S0029 - PROJ 105170)	99		0	0	0	0	None Detected	No
Asbestos	S0035	PIPING | FIBREGLASS | FIBREGLASS PIPE INSULATION, STRAIGHT PIPE, WATER SUPPLY PIPE, COOLING TOWERS R466FN & S649FN, ID # 5C2, PSA COMPRESSOR ROOM, LOC. # 99, UNOX BLDG.	99		0	0	0	0	None Detected	No

HAZMAT	Sample No	System/Material/Sample Description	Locations	Phase	LF	SF	EA	%	Type	Positive
		(SAMPLED MAY 22, 2015 AS S0030 - PROJ 105170)								
Asbestos	S0036	DUCT | FIBREGLASS W/PARGING | PARGING CEMENT, DUCT INSULATION, ID # 5B, UNOX EQUIPMENT PSA ROOM, LOC. # 98, UNOX BLDG. (SAMPLED JUNE 17, 2015 AS S0032A-C - PROJ 105170)	98		0	600	0	0	Chrysotile	Yes
Asbestos	S0037	CEILING | TEXTURE COAT | TEXTURE COAT, CEILING, ID # 5G, UNOX EQUIPMENT PSA ROOM, LOC. # 98, UNOX BLDG. .(SAMPLED JUNE 17, 2015 AS S0033A-C - PROJ 105170)	98		0	4000	0	0	Chrysotile	Yes
Asbestos	S0038	PIPING | PARGING CEMENT | PARGING CEMENT, FITTING, WATER SUPPLY PIPE, ID # 5H, UNOX EQUIPMENT PSA ROOM, LOC. # 98, UNOX BLDG. . (SAMPLED JUNE 17, 2015 AS S0034A-B - PROJ 105170)	98		0	0	3	0	None Detected	No
Asbestos	S0039	PIPING | PARGING CEMENT | PARGING CEMENT, FITTING, CHILLED WATER RETURN PIPE (LIGHT PURPLE), ID # 5I, UNOX EQUIPMENT PSA ROOM, LOC. # 98, UNOX BLDG..(SAMPLED JUNE 17, 2015 AS S0035A-B - PROJ 105170)	98		0	0	2	0	None Detected	No
Asbestos	S0040	PIPING | PARGING CEMENT | PARGING CEMENT, FITTING, CHILLED WATER SUPPLY PIPE (DARK PURPLE), ID # 5J, UNOX EQUIPMENT PSA ROOM, LOC. # 98, UNOX BLDG. (SAMPLED JUNE 17, 2015 AS S0036A-B - PROJ 105170)	98		0	0	2	0	None Detected	No
Asbestos	V9500	FLOOR | MORTAR |	98,99		0	0	0	100	Presumed Asbestos	Yes
Asbestos	V9500	PIPING | PARGING OVER FIBREGLASS |	98		0	0	25	0	Presumed Asbestos	Yes
Asbestos	V9500	WALL | MORTAR	98,99,100		0	0	0	40	Presumed Asbestos	Yes

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

APPENDIX V

HMIS Data Report

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 1 : Administration Building**
Location: #1 : Administration - Front Entrance **Floor: Main-Admin** **Room #:** **Area (sqft): 190**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		N/A	Surface	N/A	C	Y		1000			SF	S0004	None Detected	N.D.	None
Ceiling		Drywall (no compound)	No Information	NI	C			100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Duct	Supply Air	N/A	Surface	Foil Face	C	N		100	100						
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y					SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Steel Truss	Metal	No Information	NI											
Wall		Drywall (no compound)	No Information	NI	A			100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)

Newer VSF

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 1 : Administration Building**
Location: #2 : Administration - Reception **Floor: Main-Admin** **Room #:** **Area (sqft): 240**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		240			SF	V0004	None Detected	N.D.	None
Ceiling		Drywall (no compound)	No Information	NI	C			100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Duct	Supply Air	Fibreglass	Surface	Foil Face	C	N									
Floor		Vinyl Sheet Flooring	Surface	Carpet	A	N		240			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Steel Truss	Metal	No Information	NI											
Wall	All	Mortar	Surface	Quarry tile	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Drywall (no compound)	No Information	NI	C			100				V9500	Presumed Asbestos		Presumed Asbestos(F)

Mortar on cinder block walls/floor tiles is presumed asbestos containing. Mortar on stone walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 1 : Administration Building**
Location: #3 : Administration - Clerk **Floor: Main-Admin** **Room #:** **Area (sqft): 170**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		170	3		SF	V0001	None Detected	N.D.	None
Ceiling		Drywall (no compound)	No Information	NI	C	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Duct	Supply Air	Fibreglass	Surface	N/A	C	N									
Floor		Vinyl Sheet Flooring	Surface	Carpet	A	N		170			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Steel Truss	Metal	No Information	NI											
Wall		Drywall (no compound)	No Information	NI	A			100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](F)

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 1 : Administration Building**
Location: #4 : Administration - Hallway **Floor: Main-Admin** **Room #:** **Area (sqft): 300**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		300			SF	V0003	None Detected	N.D.	None
Duct	Return Air	Fibreglass	Surface	N/A	C	N									
Duct	Supply Air	Fibreglass	Surface	N/A	C	N									
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		300			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Steel Truss	Metal	No Information	NI											
Wall		Drywall (no compound)	No Information	NI	A			100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 1 : Administration Building**

Location: #5 : Administration - New Main Control Room **Floor: Main-Admin** **Room #:** **Area (sqft): 640**

Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		640			SF	S0001	None Detected	N.D.	None
Duct	Return Air	Fibreglass	Surface	N/A	C	N									
Duct	Supply Air	Fibreglass	Surface	N/A	C	N									
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		640			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI													
Other	Fumehood	Abated Material	Surface	N/A	B	Y					SF	V9000	[None]		[Abated]
Piping	Not Found	NI	No Information	NI											
Structure	Steel Truss	Metal	No Information	NI											
Wall		Abated Material	No Information	NI	A						%	V9500	[None]		[Abated]

Renovated 2019

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 1 : Administration Building**
Location: #6 : Administration - Lunchroom **Floor: Main-Admin** **Room #:** **Area (sqft): 540**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		540			SF	V0005	None Detected	N.D.	None
Duct	Return Air	Fibreglass	Surface	N/A	C	N									
Duct	Supply Air	Fibreglass	Surface	N/A	C	N									
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		540			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Steel Truss	Metal	No Information	NI											
Wall		Drywall (no compound)			A			100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

Mortar on cinder block and setting compound on ceramic tiles walls are presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 1 : Administration Building**
Location: #7 : Administration - Office **Floor: Main-Admin** **Room #:** **Area (sqft): 108**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		108			SF	V0001	None Detected	N.D.	None
Duct	Return Air	Fibreglass	Surface	N/A	C	N									
Duct	Supply Air	Fibreglass	Surface	N/A	C	N									
Floor		Vinyl Sheet Flooring	Surface	Carpet	A	N		108			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Steel Truss	Metal	No Information	NI											
Wall		Masonry	No Information					100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Drywall (no compound)			A			100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 1 : Administration Building**
Location: #8 : Administration - Office **Floor: Main-Admin** **Room #:** **Area (sqft): 108**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		108			SF	V0001	None Detected	N.D.	None
Duct	Return Air	Fibreglass	Surface	N/A	C	N									
Duct	Supply Air	Fibreglass	Surface	N/A	C	N									
Floor		Vinyl Sheet Flooring	Surface	Carpet	A	N		108			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Steel Truss	Metal	No Information	NI											
Wall		Masonry	No Information					100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Drywall (no compound)			A			100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 1 : Administration Building**
Location: #9 : Administration - Washroom **Floor: Main-Admin** **Room #:** **Area (sqft): 108**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		108			SF	V0003	None Detected	N.D.	None
Duct	Return Air	Fibreglass	Surface	N/A	C	N									
Duct	Supply Air	Fibreglass	Surface	N/A	C	N									
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		108			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Structure	Steel Truss	Metal	No Information	NI											
Wall		Drywall (no compound)			A			100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 1 : Administration Building**
Location: #10 : Administration - Washroom **Floor: Main-Admin** **Room #:** **Area (sqft): 60**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Drywall (no compound)			C			100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Duct	Not Found	NI	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		60			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Not Found	NI	No Information	NI											
Wall		Drywall (no compound)			A			100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 1 : Administration Building**
Location: #11 : Administration - Hallway **Floor: Main-Admin** **Room #:** **Area (sqft): 90**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Drywall and joint compound, Confirmed ACM July 2021 289439							2		SF	V9000	Confirmed Asbestos		Confirmed Asbestos(NF)
Ceiling		Drywall (no compound)			C			100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Duct	Not Found	NI	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		90			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Not Found	NI	No Information	NI											
Wall		Drywall (no compound)			A			100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 1 : Administration Building**
Location: #12 : Administration - Stairwell **Floor: Main-Admin** **Room #:** **Area (sqft): 100**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Drywall and joint compound						100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		100			SF	V0003	None Detected	N.D.	None
Duct	Not Found	NI	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		100			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Steel Truss	Metal	No Information	NI											
Wall[1]		Masonry													
Wall		Drywall (no compound)			A			100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)

1 - Mortar on masonry suspect to contain asbestos

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 1 : Administration Building**
Location: #13 : Administration - Hallway **Floor: Main-Admin** **Room #:** **Area (sqft): 145**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		145			SF	V0003	None Detected	N.D.	None
Duct	Not Found	NI	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		145			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Steel Truss	Metal	No Information	NI											
Wall		Drywall (no compound)			A			100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 1 : Administration Building**
Location: #14 : Administration - Office **Floor: Main-Admin** **Room #:** **Area (sqft): 192**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		192			SF	V0003	None Detected	N.D.	None
Duct	Supply Air	Fibreglass	Surface	N/A	C	N									
Floor		Vinyl Sheet Flooring	Surface	Carpet	A	N		192			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Steel Truss	Metal	No Information	NI											
Wall		Drywall (no compound)			A			100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 1 : Administration Building**
Location: #15 : Administration - Office **Floor: Main-Admin** **Room #:** **Area (sqft): 160**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		160			SF	V0003	None Detected	N.D.	None
Duct	Supply Air	Fibreglass	Surface	N/A	C	N									
Floor		Vinyl Sheet Flooring	Surface	Carpet	A	N		160			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Steel Truss	Metal	No Information	NI											
Wall		Drywall (no compound)			A			100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 1 : Administration Building**
Location: #16 : Administration - Control Room **Floor: Main-Admin** **Room #:** **Area (sqft): 336**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		336			SF	V0003	None Detected	N.D.	None
Duct	Supply Air	Fibreglass	Surface	N/A	C	N									
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		336			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Steel Truss	Metal	No Information	NI											
Wall		Drywall (no compound)			A			100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 1 : Administration Building**
Location: #17 : Administration - Computer Room **Floor: Main-Admin** **Room #:** **Area (sqft): 212**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		212			SF	V0003	None Detected	N.D.	None
Duct	Supply Air	Fibreglass	Surface	N/A	C	N									
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		212			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Steel Truss	Metal	No Information	NI											
Wall		Drywall (no compound)			A			100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 1 : Administration Building**

Location: #18 : Administration - Conference Room **Floor: Main-Admin** **Room #:** **Area (sqft): 414**

Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		414			SF	S0002	None Detected	N.D.	None
Duct	Supply Air	Fibreglass	Surface	N/A	C	N									
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		414			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Steel Truss	Metal	No Information	NI											
Wall		Wall covering													[None]
Wall		Drywall (no compound)		Wall covering	A			100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 1 : Administration Building**
Location: #19 : Administration - Hallway **Floor: Main-Admin** **Room #:** **Area (sqft): 156**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		132			SF	V0003	None Detected	N.D.	None
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		24			SF	V0005	None Detected	N.D.	None
Duct	Supply Air	Fibreglass	Surface	N/A	C	N									
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		156			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Steel Truss	Metal	No Information	NI											
Wall		Drywall (no compound), Confirmed ACM July 2021 289439			A			100			%	V9000	Confirmed Asbestos		Confirmed Asbestos(F)
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 1 : Administration Building**
Location: #20 : Administration - Hallway **Floor: Main-Admin** **Room #:** **Area (sqft): 100**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Metal	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		100			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Steel Truss	Metal	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 1 : Administration Building**
Location: #21 : Administration - Stairwell **Floor: Basement-Admin** **Room #:** **Area (sqft): 200**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		200			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		5			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		1			EA	S0006	None Detected	N.D.	None
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		8			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Concrete (poured)	No Information	NI											
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 1 : Administration Building**
Location: #22 : Administration - Hallway **Floor: Basement-Admin** **Room #:** **Area (sqft): 390**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		390			SF	V0005	None Detected	N.D.	None
Duct	Return Air	Not Insulated	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	C	Y		390			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	N									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	N		1			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	N									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	N		3			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Concrete (poured)	No Information	NI											
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 1 : Administration Building**

Location: #23 : Administration - Men's Locker/Washroom **Floor: Basement-Admin** **Room #:** **Area (sqft): 720**

Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		688			SF	S0003	None Detected	N.D.	None
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		32			SF	S0009	None Detected	N.D.	None
Duct	Return Air	Fibreglass	Surface	N/A	C	N		6							
Duct	Supply Air	Fibreglass	Surface	N/A	C	N									
Floor	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Floor		Ceramic Tiles	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Debris	Abated Material	Debris	N/A	C	N					SF	V0014	[None]	50-75%	[Abated]
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	N		11			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	N		12			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Ceramic Tiles	No Information	NI											

Setting compound on ceramic walls and floor tiles are presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 1 : Administration Building**

Location: #24 : Administration - Women's Locker/Washroom **Floor: Basement-Admin** **Room #:** **Area (sqft): 400**

Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		368			SF	V0003	None Detected	N.D.	None
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		32			SF	V0009	None Detected	N.D.	None
Duct	Return Air	Fibreglass	Surface	N/A	C	N									
Duct	Supply Air	Fibreglass	Surface	N/A	C	N									
Floor	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Floor		Ceramic Tiles	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Debris	Abated Material	Debris	N/A	C	N					SF	V0014	[None]	50-75%	[Abated]
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	N		6			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	N		6			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Ceramic Tiles	No Information	NI											

Setting compound on ceramic walls and floor tiles are presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 1 : Administration Building**
Location: #25 : Administration - Stairwell **Floor: Basement-Admin** **Room #:** **Area (sqft): 300**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		300			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		1			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		1			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Drywall and joint compound						100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Concrete (poured)	No Information	NI											
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 1 : Administration Building**
Location: #26 : Administration - Lab Storage **Floor: Basement-Admin** **Room #:** **Area (sqft): 72**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		68		4	SF	S0005	None Detected	N.D.	None
Duct	Supply Air	Fibreglass	Surface	N/A	C	N									
Floor		Concrete (poured)	Surface	N/A	A	Y		72			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y					EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Concrete (poured)	No Information	NI											
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 1 : Administration Building**
Location: #27 : Administration - Gym **Floor: Basement-Admin** **Room #:** **Area (sqft): 300**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		300			SF	V0005	None Detected	N.D.	None
Duct	Supply Air	Fibreglass	Surface	N/A	C	N									
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		300			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		3			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Drywall (no compound)			A			100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 1 : Administration Building**
Location: #28 : Administration - Storage **Floor: Basement-Admin** **Room #:** **Area (sqft): 96**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		96			SF	V0005	None Detected	N.D.	None
Duct	Supply Air	Fibreglass	Surface	N/A											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		96			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	N		3			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	N		3			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 1 : Administration Building**
Location: #29 : Administration - Electrical Room **Floor: Basement-Admin** **Room #:** **Area (sqft): 144**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Electrical Panel	Not Insulated	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Concrete (poured)	No Information	NI											
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 1 : Administration Building**

Location: #30 : Administration - Mechanical Room **Floor: Basement-Admin** **Room #:** **Area (sqft): 288**

Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Fresh Air Intake	Fibreglass	Surface	Canvas	C	Y									
Duct	Supply Air	Fibreglass	Surface	Canvas	C	Y									
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Fibreglass w/Parging	Surface	Canvas	B	Y		320			SF	V0008	Chrysotile	0.1-1%	Confirmed Asbestos(F)
Other	Not Found	NI	No Information	NI											
Piping	Chilled Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Chilled Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		1			EA	S0007	None Detected	N.D.	None
Piping	Chilled Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		17			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping		Fibreglass	Straight	Canvas	C	Y									
Piping		Parging over Fibreglass	Fitting	Canvas	C	Y		7			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping		Fibreglass	Straight	Canvas	C	Y									
Piping		Parging over Fibreglass	Fitting	Canvas	C	Y		3			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		18			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		20			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Concrete (poured)	No Information	NI											
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 1 : Administration Building**
Location: #31 : Administration - Hallway **Floor: Basement-Admin** **Room #:** **Area (sqft): 450**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		450			SF	V0005	None Detected	N.D.	None
Duct	Return Air	Fibreglass	Surface	N/A	C	N									
Duct	Supply Air	Fibreglass	Surface	N/A	C	N									
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		450			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Concrete (poured)	No Information	NI											
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 1 : Administration Building**
Location: #32 : Administration - Stairwell **Floor: Basement-Admin** **Room #:** **Area (sqft): 164**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Drywall and joint compound			C	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		164			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Drywall and joint compound			A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Concrete (poured)	No Information	NI											
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 1 : Administration Building**

Location: #33 : Administration - Mechanical Room **Floor: Basement-Admin** **Room #:** **Area (sqft): 576**

Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Fresh Air Intake	Fibreglass	Surface	Canvas	C	Y									
Duct	Return Air	Fibreglass	Surface	Canvas	C	Y									
Duct	Supply Air	Fibreglass	Surface	Canvas	C	Y									
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Mechanical Equipment	Exchanger	Fibreglass	Surface	Canvas	C	Y									
Other	Not Found	NI	No Information	NI											
Piping		Fibreglass	Straight	Canvas	C	Y									
Piping		Abated Material	Fitting	Canvas	C	Y					EA	V9500	[None]		[Abated]
Piping		Fibreglass	Straight	Canvas	C	Y									
Piping		Abated Material	Fitting	Canvas	C	Y					EA	V9500	[None]		[Abated]
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Fibreglass	Fitting	Canvas	C	Y		100			%	V0000	Non-Asbestos		None
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		100			%	V0000	Non-Asbestos		None
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Concrete (poured)	No Information	NI											
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 1 : Administration Building**

Location: #34 : Administration - Computer Storage **Floor: Basement-Admin** **Room #:** **Area (sqft): 204**

Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		204			SF	V0005	None Detected	N.D.	None
Duct	Not Found	NI	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		204			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	N		2			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	N		2			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Concrete (poured)	No Information	NI											
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 1 : Administration Building**
Location: #35 : Administration - Office **Floor: Basement-Admin** **Room #:** **Area (sqft): 32**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Drywall (no compound)			C			100			%	V0000	Non-Asbestos		None
Duct	Not Found	NI	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		32			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Not Found	NI	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 1 : Administration Building**
Location: #36 : Administration - Storage **Floor: Basement-Admin** **Room #:** **Area (sqft): 240**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		240			SF	V0005	None Detected	N.D.	None
Duct	Not Found	NI	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		240			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	N		2			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	N		2			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Concrete (poured)	No Information	NI											
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 1 : Administration Building**
Location: #109 : Exterior Wall **Floor: Main** **Room #: Ex** **Area (sqft): 0**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Wall	All	Plaster	Exterior	N/A	A	Y		750			SF	S0027	Chrysotile	5-10%	Confirmed Asbestos(PF)
Wall		Mortar	Surface	Masonry	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Exterior Wall of Administration Bldg, SEWPCC, Base of Wall Roof needs to be tested prior to any renovation or demolition activities.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

ALL DATA REPORT

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Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 2 : Grit Building**
Location: #59 : Grit Building - Gallery No. 1 **Floor: Basement-Grit Building** **Room #:** **Area (sqft): 1100**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Chilled Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Chilled Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		3	3		EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Chilled Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Chilled Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		5			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Domestic Water (Hot and Cold)	Fibreglass	Straight	Canvas	C	Y									
Piping	Domestic Water (Hot and Cold)	Parging over Fibreglass	Fitting	Canvas	C	Y		2			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping		Fibreglass	Straight	Canvas	C	Y									
Piping		Parging over Fibreglass	Fitting	Canvas	C	Y		3			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping		Fibreglass	Straight	Canvas	C	Y									
Piping		Parging over Fibreglass	Fitting	Canvas	C	Y		3			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		6			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		5			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Plaster	Surface	NI	A	Y		100			%	S0029	None Detected	N.D.	None

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 2 : Grit Building**
Location: #60 : Grit Building - Gallery No. 3 **Floor: Basement-Grit Building** **Room #:** **Area (sqft): 500**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Chilled Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Chilled Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		3			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Chilled Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Chilled Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		3			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping		Fibreglass	Straight	Canvas	C	Y									
Piping		Parging over Fibreglass	Fitting	Canvas	C	Y		1			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping		Fibreglass	Straight	Canvas	C	Y									
Piping		Parging over Fibreglass	Fitting	Canvas	C	Y		1			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		3			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		3			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 2 : Grit Building**
Location: #61 : Grit Building - Gallery No. 2 **Floor: Basement-Grit Building** **Room #:** **Area (sqft): 1100**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping		Parging over Fibreglass	Fitting	Canvas	C	Y		5			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping		Fibreglass	Straight	Canvas	C	Y									
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 2 : Grit Building**
Location: #62 : Grit Building - Hallway **Floor: Main-Grit Building** **Room #:** **Area (sqft): 432**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 2 : Grit Building**
Location: #63 : Grit Building - Grit Tank Room **Floor: Main-Grit Building** **Room #:** **Area (sqft): 2880**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Plaster	Surface	NI	A	Y		100			%	S0030	None Detected	N.D.	None
Wall		Plaster	Surface	NI	A	Y		100			%	S0031	None Detected	N.D.	None

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 2 : Grit Building**
Location: #116 : Grit Building Exterior **Floor: NA** **Room #:** **Area (sqft): 0**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Wall		Plaster	Surface	N/A	A	Y		100			%	S0032	None Detected	N.D.	None
Wall		Mortar	Surface	N/A	A	Y		100			%	S0028	None Detected	N.D.	None
Wall	Base	Plaster	Surface	N/A	A	Y		100			%	S0027	None Detected	N.D.	None
Wall	Exterior	Plaster	Exterior	Marble	B	N		100			%	S0033	None Detected	N.D.	None
Wall	Exterior	Tar	Exterior	Fibreglass	B	N		100			%	S0034	Chrysotile	1-5%	Confirmed Asbestos(NF)

Roof needs to be tested prior to any renovation or demolition activities. Plaster under exterior stone in east wall has been confirmed non-asbestos. However the tar underneath the fiberglass under this plaster in the east wall tested positive for asbestos.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

ALL DATA REPORT

PINCHIN
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Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 3 : Oxygen Reactor**
Location: #87 : Oxygen Reactor - Gallery No. 3 **Floor: Basement-Oxygen Reactor** **Room #:** **Area (sqft): 1800**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	High Pressure Steam	Fibreglass	Straight	Canvas	C	Y									
Piping	High Pressure Steam	Parging over Fibreglass	Fitting	Canvas	C	Y		8			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		7			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		7			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 3 : Oxygen Reactor**

Location: #111 : Exterior Wall of Oxygen Reactor Bldg **Floor: Main** **Room #: Ex** **Area (sqft): 0**

Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Floor	Exterior	Plaster	Surface	N/A	A	Y		100			%	S0028	None Detected	N.D.	None
Floor	Exterior	Plaster	Surface	N/A	A	Y		100			%	S0029	None Detected	N.D.	None
Other	Roof	Concrete (poured)	Surface	N/A	A	Y		100			%	S0031	None Detected	N.D.	None
Other	Roof	Concrete (poured)	Surface	N/A	A	Y		100			%	S0032	None Detected	N.D.	None
Wall	Exterior	Plaster	Base	N/A	A	Y		200			SF	S0027	Chrysotile	5-10%	Confirmed Asbestos(PF)
Wall	Exterior	Plaster	Surface	N/A	A	Y		100			%	S0030	None Detected	N.D.	None

Exterior Wall of Oxygen Reactor Bldg October 2014 Proj 95079 PLaster in Exterior Wall in South Side is Non-Detected Roof needs to be tested prior to any renovation or demolition activities.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

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ALL DATA REPORT

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Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 4 : Primary Clarifiers**

Location: #77 : Primary Clarifiers - Storage Room (Former Chlorine Room **Floor: Ground-Primary Clarifiers** **Room #:** **Area (sqft): 800**

Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		2			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		1			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 4 : Primary Clarifiers**
Location: #78 : Primary Clarifiers - Hallway **Floor: Ground-Primary Clarifiers** **Room #:** **Area (sqft): 400**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 4 : Primary Clarifiers**
Location: #79 : Primary Clarifier - East Walkway **Floor: Ground-Primary Clarifiers** **Room #:** **Area (sqft): 900**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Fresh Air Intake	Fibreglass	Surface	Canvas	C	Y									
Duct	Supply Air	Fibreglass	Surface	Canvas	C	Y									
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Mechanical Equipment	Exchanger	Fibreglass w/Parging	Surface	Canvas	B	Y		4			SF	V0010	Chrysotile	50-75%	Confirmed Asbestos(F)
Mechanical Equipment	Exchanger	Fibreglass w/Parging	Surface	Canvas	B	Y		33			SF	V0010	Chrysotile	50-75%	Confirmed Asbestos(F)
Other	Not Found	NI	No Information	NI											
Piping		Fibreglass	Straight	Canvas	C	Y									
Piping		Parging over Fibreglass	Fitting	Canvas	C	Y		1			EA	S0029	None Detected	N.D.	None
Piping		Parging over Fibreglass	Fitting	Canvas	C	Y		27			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping		Fibreglass	Straight	Canvas	C	Y									
Piping		Parging over Fibreglass	Fitting	Canvas	C	Y		1			EA	S0030	None Detected	N.D.	None
Piping		Parging over Fibreglass	Fitting	Canvas	C	Y		18			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		6			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		1			EA	S0028	Asbestos Containing	25-50%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		9			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	Surface	NI	A	Y						S0032	None Detected	N.D.	None

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 4 : Primary Clarifiers**

Location: #80 : Primary Clarifier - Centre Walkway **Floor: Ground-Primary Clarifiers** **Room #:** **Area (sqft): 2000**

Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Fan Unit	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 4 : Primary Clarifiers**
Location: #81 : Primary Clarifier - Service Area **Floor: Ground-Primary Clarifiers** **Room #:** **Area (sqft): 3200**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Exhaust	Fibreglass w/Parging	Surface	Canvas	C	Y		33			SF	V0010	Chrysotile	50-75%	Confirmed Asbestos(F)
Duct	Exhaust	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 4 : Primary Clarifiers**
Location: #82 : Primary Clarifier - Fan Room **Floor: Second-Primary Clarifiers** **Room #:** **Area (sqft): 300**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Exhaust	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Fan Unit	Not Insulated	No Information	NI											
Mechanical Equipment	Fan Unit	Not Insulated	No Information	NI											
Mechanical Equipment	Fan Unit	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 4 : Primary Clarifiers**
Location: #83 : Primary Clarifier - Gallery No. 5 **Floor: Basement-Primary Clarifiers** **Room #:** **Area (sqft): 1200**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	High Pressure Steam	Fibreglass	Straight	Canvas	C	Y									
Piping	High Pressure Steam	Parging over Fibreglass	Fitting	Canvas	C	Y		12			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Plaster	Surface	N/A	A	Y		100			%	S0037	None Detected	N.D.	None
Wall		Plaster	Surface	N/A	A	Y		100			%	S0038	None Detected	N.D.	None
Wall		Masonry	No Information	NI								S0032	None Detected	N.D.	None

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 4 : Primary Clarifiers**
Location: #84 : Primary Clarifier - Gallery No. 3 **Floor: Basement-Primary Clarifiers** **Room #:** **Area (sqft): 2000**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	High Pressure Steam	Fibreglass	Straight	Canvas	C	Y									
Piping	High Pressure Steam	Parging over Fibreglass	Fitting	Canvas	C	Y		20			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		5			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		5			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Low Pressure Steam	Fibreglass	Straight	Canvas	C	Y									
Piping	Low Pressure Steam	Parging over Fibreglass	Fitting	Canvas	C	Y		23			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 4 : Primary Clarifiers**
Location: #85 : Primary Clarifiers - Gallery No. 4 **Floor: Basement-Primary Clarifiers** **Room #:** **Area (sqft): 600**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y						S0036	None Detected	N.D.	None
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		1			EA	S0035	None Detected	N.D.	None
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		1			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		1			EA	S0034	None Detected	N.D.	None
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		7			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI								S0033	None Detected	N.D.	None

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 4 : Primary Clarifiers**
Location: #86 : Primary Clarifiers - Stairwell **Floor: Basement-Primary Clarifiers** **Room #:** **Area (sqft): 160**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Fibreglass	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Abated Material	Fitting	Canvas	C	Y					EA	V0014	[None]	50-75%	[Abated]
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		7			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Deck	Metal	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

No access since 2017.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 4 : Primary Clarifiers**

Location: #110 : Exterior Wall of Primary Clarifier+Admin+Pump Screen Bldg **Floor: Main** **Room #:** **Area (sqft): 0**

Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Wall	All	Mortar	Surface	Quarry tile	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall	Exterior	Plaster	Base	N/A	A	Y		600			SF	S0027	Chrysotile	5-10%	Confirmed Asbestos(PF)

Roof needs to be tested prior to any renovation or demolition activities. Mortar on stone walls is presumed asbestos containing.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

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Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 9 : PSA Building**
Location: #112 : Exterior Wall of PSA Bldg **Floor: Main** **Room #: Extrior Wa** **Area (sqft): 0**
Survey Date: 2014-10-07 **Last Re-Assessment: 2014-10-07**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Wall	Exterior	Plaster	Base	N/A	A	Y		200			SF	S0001	None Detected	N.D.	None
Wall	Exterior	Marble	Surface	N/A	A	Y		100			%	V9000	Confirmed Asbestos		Confirmed Asbestos(NF)

Exterior Wall of PSA Bldg October 2014 Proj 95079 Roof needs to be tested prior to any renovation or demolition activities.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 5 : Pump and Screen Building**
Location: #37 : Pump and Screen - Storage **Floor: Second-Pump and Screen** **Room #:** **Area (sqft): 1300**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Fresh Air Intake	Abated Material	Surface	Canvas	C	Y					SF	S0010	[None]	50-75%	[Abated]
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Glycol	Fibreglass	ALL	Polyvinyl chloride (PVC)				100			%	V0000	Non-Asbestos		None
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		10			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		7			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

Confirmed ACM Abated Masonry on cinder block walls remains presumed to contain asbestos

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 5 : Pump and Screen Building**

Location: #38 : Pump and Screen - Mechanical Room **Floor: Second-Pump and Screen** **Room #:** **Area (sqft): 4400**

Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Fresh Air Intake	Abated Material	Surface	Canvas	C	Y					SF	V0010	[None]	50-75%	[Abated]
Duct	Return Air	Fibreglass	No Information	NI											
Duct	Supply Air	Fibreglass	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Mechanical Equipment	Exchanger	Fibreglass	Surface	Canvas	C	Y									
Other	Not Found	NI	No Information	NI											
Piping		Parging Cement	Fitting	Canvas	C	Y		16			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping		Parging over Fibreglass	Fitting	Canvas	C	Y		25			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Cold Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Cold Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		31			EA	V0006	None Detected	N.D.	None
Piping	Chilled Water System	Fibreglass	Straight	Canvas	C	Y									
Piping	Chilled Water System	Parging over Fibreglass	Fitting	Canvas	C	Y		30			EA	V0006	None Detected	N.D.	None
Piping		Fibreglass	Straight	Canvas	C	Y									
Piping		Parging Cement	Fitting	Canvas	C	Y		3			EA	S0030	None Detected	N.D.	None
Piping		Fibreglass	Straight	Canvas	C	Y									
Piping		Parging over Fibreglass	Fitting	Canvas	C	Y		2			EA	S0029	None Detected	N.D.	None
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		49			EA	V0014	Chrysotile	50-75%	Confirmed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Fibreglass w/Parging	Straight	Canvas	C	Y		1			%	S0024	Chrysotile	50-75%	Confirmed

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
															Asbestos(F)
Piping	Heating Water Supply	Fibreglass w/Parging	Straight	Canvas	C	Y		99			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		1			EA	S0028	None Detected	N.D.	None
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		50			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

new duct insulation installed as per client October 06, 2014. Masonry on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 5 : Pump and Screen Building**

Location: #39 : Pump and Screen - Elevator Machine Room **Floor: Second-Pump and Screen** **Room #:** **Area (sqft): 144**

Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 5 : Pump and Screen Building**

Location: #40 : Pump and Screen - Upper Landing Screen Room **Floor: Second-Pump and Screen** **Room #:** **Area (sqft): 225**

Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 5 : Pump and Screen Building**

Location: #41 : Pump and Screen - (Old Truck Loading) **Floor: Main-Pump and Screen** **Room #:** **Area (sqft): 1200**

Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Abated Material	Fitting	Canvas	C	Y					EA	V9500	[None]		[Abated]
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Abated Material	Fitting	Canvas	C	Y					EA	V9500	[None]		[Abated]
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Concrete (poured)	No Information	NI											
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 5 : Pump and Screen Building**
Location: #42 : Pump and Screen - Screen Room **Floor: Main-Pump and Screen** **Room #:** **Area (sqft): 4800**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Air Handling Unit	Fibreglass w/Parging	Surface	Canvas	C	Y		160			SF	S0023	Chrysotile	50-75%	Confirmed Asbestos(F)
Duct	Exhaust	Fibreglass	Surface	Canvas	C	Y		200	4	3		V0000	Non-Asbestos		None
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Concrete (poured)	No Information	NI											

Sample S0023 (S0003A Lab Ref b102715) Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 5 : Pump and Screen Building**
Location: #43 : Pump and Screen - Hallway **Floor: Main-Pump and Screen** **Room #:** **Area (sqft): 550**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Cold Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Cold Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		2			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Chilled Water System	Fibreglass	Straight	Canvas	C	Y									
Piping	Chilled Water System	Parging over Fibreglass	Fitting	Canvas	C	Y		2			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Plaster	Surface	Paint	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(PF)
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Concrete (poured)	No Information	NI											
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 5 : Pump and Screen Building**

Location: #44 : Pump and Screen - Viewing Gallery **Floor: Main-Pump and Screen** **Room #:** **Area (sqft): 2025**

Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Duct	Supply Air	Abated Material	Surface	NI	C	Y					SF	V0011	[None]	1-5%	[Abated]
Floor	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Floor		Ceramic Tiles	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Structure	Beam, Deck	Texture Coat	Surface	NI	C	Y		2025			SF	S0011	Chrysotile	1-5%	Confirmed Asbestos(F)
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

overspray is texture coat Mortar on cinder block walls is presumed asbestos containing. Setting compounds on ceramic floor tiles are presumed asbestos containing

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 5 : Pump and Screen Building**
Location: #45 : Pump and Screen - Stairwell **Floor: Main-Pump and Screen** **Room #:** **Area (sqft): 225**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Metal	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		4			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		6			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Not Found	NI	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Concrete (poured)	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 5 : Pump and Screen Building**
Location: #46 : Pump and Screen - Hallway **Floor: Main-Pump and Screen** **Room #:** **Area (sqft): 225**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Abated Material	Fitting	Canvas	C	Y					EA	V0014	[None]	50-75%	[Abated]
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Abated Material	Fitting	Canvas	C	Y					EA	V9500	[None]		[Abated]
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 5 : Pump and Screen Building**
Location: #47 : Pump and Screen - Stairwell **Floor: Main-Pump and Screen** **Room #:** **Area (sqft): 400**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		2			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		2			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Concrete (poured)	No Information	NI											
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 5 : Pump and Screen Building**
Location: #48 : Pump and Screen - Wet Well **Floor: Main-Pump and Screen** **Room #:** **Area (sqft): 0**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS - NO ACCESS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard

No Access - H2S

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 5 : Pump and Screen Building**
Location: #49 : Pump and Screen - Motor Room **Floor: Basement-Pump and Screen** **Room #:** **Area (sqft): 2250**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Floor		Ceramic Tiles	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Structure	Beam, Deck	Texture Coat	Surface	N/A	C	Y		2250			SF	V0011	Chrysotile	1-5%	Confirmed Asbestos(F)
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing Setting compound on ceramic floor tiles are presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 5 : Pump and Screen Building**

Location: #50 : Pump and Screen - Electrical Room **Floor: Basement-Pump and Screen** **Room #:** **Area (sqft): 2000**

Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Electrical Panel	Not Insulated	No Information	NI											
Piping		Fibreglass	Straight	Canvas	C	Y									
Piping		Parging over Fibreglass	Fitting	Canvas	C	Y				1	EA	V0006	None Detected	N.D.	None
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall	N/A	Concrete (poured)	No Information	NI											
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 5 : Pump and Screen Building**
Location: #51 : Pump and Screen - Blower Room **Floor: Basement-Pump and Screen** **Room #:** **Area (sqft): 2000**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Parging over Fibreglass	Surface	Canvas	C	Y		1200			SF	S0012	Chrysotile	50-75%	Confirmed Asbestos(F)
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Cold Water Return	Fibreglass	Straight	Canvas	D	Y									
Piping	Cold Water Return	Parging over Fibreglass	Fitting	Canvas	D	Y		6			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Chilled Water System	Fibreglass	Straight	Canvas	D	Y									
Piping	Chilled Water System	Abated Material	Fitting	Canvas	D	Y					EA	V9500	[None]		[Abated]
Piping	Heating Water Return	Fibreglass	Straight	Canvas	D	Y		2							
Piping	Heating Water Return	Abated Material	Fitting	Canvas	D	Y					EA	V9500	[None]		[Abated]
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	D	Y									
Piping	Heating Water Supply	Abated Material	Fitting	Canvas	D	Y					EA	V9500	[None]		[Abated]
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Concrete (poured)	No Information	NI											
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 5 : Pump and Screen Building**
Location: #52 : Pump and Screen - Control Room **Floor: Basement-Pump and Screen** **Room #:** **Area (sqft): 192**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		192			SF	V0005	None Detected	N.D.	None
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		192			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Electrical Panel	Not Insulated	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Steel Truss	Metal	No Information	NI											
Wall		Drywall (no compound)													

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 5 : Pump and Screen Building**
Location: #53 : Pump and Screen - Gallery **Floor: Basement-Pump and Screen** **Room #:** **Area (sqft): 320**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											
Wall		Masonry	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 5 : Pump and Screen Building**

Location: #54 : Pump and Screen - Gallery/Hallway **Floor: Basement-Pump and Screen** **Room #:** **Area (sqft): 640**

Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Cold Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Cold Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		13			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Chilled Water System	Fibreglass	Straight	Canvas	C	Y									
Piping	Chilled Water System	Parging over Fibreglass	Fitting	Canvas	C	Y		13			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Domestic Water (Hot and Cold)	Fibreglass	Straight	Canvas	C	Y									
Piping	Domestic Water (Hot and Cold)	Parging over Fibreglass	Fitting	Canvas	C	Y		2			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping		Fibreglass	Straight	Canvas	C	Y									
Piping		Parging over Fibreglass	Fitting	Canvas	C	Y		6			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping		Fibreglass	Straight	Canvas	C	Y									
Piping		Parging over Fibreglass	Fitting	Canvas	C	Y		6			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		22			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		19			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Concrete (poured)	No Information	NI											
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 5 : Pump and Screen Building**
Location: #55 : Pump and Screen - Washroom **Floor: Basement-Pump and Screen** **Room #:** **Area (sqft): 64**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Plaster	Surface	N/A	C	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(PF)
Duct	Not Found	NI	No Information	NI											
Floor	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Floor		Ceramic Tiles	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Domestic Water (Hot and Cold)	Fibreglass	Straight	Canvas	B	Y									
Piping	Domestic Water (Hot and Cold)	Parging over Fibreglass	Fitting	Canvas	B	Y		5			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Not Found	NI	No Information	NI											
Wall	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Ceramic Tiles	No Information	NI											

Setting compound on ceramic floor and wall tiles are presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 5 : Pump and Screen Building**
Location: #56 : Pump and Screen - Storage **Floor: Basement-Pump and Screen** **Room #:** **Area (sqft): 64**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Concrete (poured)	No Information	NI											
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 5 : Pump and Screen Building**
Location: #57 : Pump and Screen - Pump Well / Pump Level **Floor: Sub Basement-Pump Well** **Room #:** **Area (sqft): 0**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 5 : Pump and Screen Building**
Location: #58 : Pump and Screen - Pump Well **Floor: Sub Basement-Pump Well** **Room #:** **Area (sqft): 3200**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Concrete (poured)	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 5 : Pump and Screen Building**

Location: #110 : Exterior Wall of Primary Clarifier+Admin+Pump Screen Bldg **Floor: Main** **Room #: Ex** **Area (sqft): 0**

Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Wall	All	Mortar	Surface	Quarry tile	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall	Exterior	Plaster	Base	N/A	A	Y		100			SF	S0027	Chrysotile	5-10%	Confirmed Asbestos(PF)
Wall	Exterior	Plaster	Surface	N/A	A	Y		100			%	S0031	None Detected	N.D.	None
Wall	Exterior	Mortar	Surface	Masonry	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Exterior Wall of Primary Clarifier+Admin+Pump Screen Bldg October 2014 Proj 95079 Roof needs to be tested prior to any renovation or demolition activities. Grout (masonry mortar/cement/plaster) on stone walls is presumed asbestos containing.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifier**

Location: #88 : Secondary Clarifier - Compressor Room **Floor: Basement-Secondary Clarifiers** **Room #:** **Area (sqft): 576**

Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Fibreglass	Surface	Canvas	C	Y									
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Concrete (poured)	No Information	NI											
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifier**

Location: #89 : Secondary Clarifier - Blower Room **Floor: Basement-Secondary Clarifiers** **Room #:** **Area (sqft): 576**

Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Fresh Air Intake	Fibreglass	Surface	Canvas	C	Y									
Duct	Supply Air	Fibreglass w/Parging	Surface	Canvas	C	Y		400			SF	V0010	Chrysotile	50-75%	Confirmed Asbestos(F)
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Concrete (poured)	No Information	NI											
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifier**

Location: #90 : Secondary Clarifier - Basement Area/Pump Room **Floor: Basement-Secondary Clarifiers** **Room #:** **Area (sqft): 7000**

Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Fibreglass w/Parging	Surface	Canvas	C	Y		100			%	V0010	Chrysotile	50-75%	Confirmed Asbestos(F)
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Chilled Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Chilled Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		3			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Chilled Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Chilled Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		5			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Domestic Water (Hot and Cold)	Fibreglass	Straight	Canvas	C	Y									
Piping	Domestic Water (Hot and Cold)	Parging over Fibreglass	Fitting	Canvas	C	Y		8			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	High Pressure Steam	Fibreglass	Straight	Canvas	C	Y									
Piping	High Pressure Steam	Abated Material	Fitting	Canvas	C	Y					EA	V9500	[None]		[Abated]
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		12			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		18			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Concrete (poured)	No Information	NI											
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifier**

Location: #91 : Secondary Carifier - Control Room **Floor: Basement-Secondary Clarifiers** **Room #:** **Area (sqft): 324**

Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		342			SF	V0005	None Detected	N.D.	None
Duct	Return Air	Fibreglass	Surface	Canvas	C	Y									
Duct	Supply Air	Fibreglass	Surface	Canvas	C	Y									
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		342			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Electrical Panel	Not Insulated	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Drywall (no compound)			A			100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifier**

Location: #92 : Secondary Clarifier - Hallway/Office **Floor: Main-Secondary Clarifiers** **Room #:** **Area (sqft): 360**

Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		360			SF	V0005	None Detected	N.D.	None
Duct	Not Found	NI	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		360			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifier**

Location: #93 : Secondary Clarifier - Equipment Handling Room (S109) **Floor: Main-Secondary Clarifiers** **Room #:** **Area (sqft): 625**

Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Air Handling Unit	Fibreglass w/Parging	Surface	Canvas	C	Y		100			SF	S0021	Chrysotile	50-75%	Confirmed Asbestos(F)
Duct	Supply Air	Fibreglass w/Parging	Surface	Canvas	C	Y		100			SF	V9500	Presumed Asbestos		Presumed Asbestos(F)
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Heating Water Tank	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

Sample S0001, Lab Ref b102715 Sample S0021 (S0001A Lab Ref b102715) Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifier**

Location: #94 : Secondary Clarifier - Scrubber Room (Truck Bay #7 S112) **Floor: Main-Secondary Clarifiers** **Room #:** **Area (sqft): 1200**

Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		13			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y		100							
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		11			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifier**
Location: #95 : Secondary Clarifier - Washroom **Floor: Main-Secondary Clarifiers** **Room #:** **Area (sqft): 60**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Floor		Ceramic Tiles	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Domestic Water (Hot and Cold)	Fibreglass	Straight	Canvas	C	Y									
Piping	Domestic Water (Hot and Cold)	Parging over Fibreglass	Fitting	Canvas	C	Y		3			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Ceramic Tiles	No Information	NI											

Setting compound on ceramic floor and wall tiles are presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifier**
Location: #96 : Secondary Clarifier - Truck Bay **Floor: Main-Secondary Clarifiers** **Room #:** **Area (sqft): 1200**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Abated Material	Fitting	Canvas	C	Y					EA	V9500	[None]		[Abated]
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Abated Material	Fitting	Canvas	C	Y					EA	V9500	[None]		[Abated]
Structure	Steel Truss	Metal	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifier**

Location: #97 : Secondary Clarifier - Electrical Room **Floor: Main-Secondary Clarifiers** **Room #:** **Area (sqft): 600**

Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Abated Material	Surface	Canvas	C	Y					SF	V0010	[None]	50-75%	[Abated]
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Electrical Panel	Not Insulated	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifier**

Location: #101 : Secondary Clarifier - North Walkway **Floor: Main-Secondary Clarifiers** **Room #:** **Area (sqft): 350**

Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Fibreglass w/Parging	Surface	Canvas	C	Y		750			SF	V0010	Chrysotile	50-75%	Confirmed Asbestos(F)
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifier**
Location: #102 : Secondary Clarifier - Fan Room **Floor: Main-Secondary Clarifiers** **Room #:** **Area (sqft): 1200**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Fan Unit	Not Insulated	No Information	NI											
Mechanical Equipment	Fan Unit	Not Insulated	No Information	NI											
Mechanical Equipment	Fan Unit	Not Insulated	No Information	NI											
Mechanical Equipment	Fan Unit	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Concrete (poured)	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifier**

Location: #103 : Secondary Clarifier - Ventilation Room **Floor: Second-Secondary Clarifiers** **Room #:** **Area (sqft): 1200**

Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Return Air	Abated Material	Surface	Canvas	B	Y					SF	V0010	[None]	50-75%	[Abated]
Duct	Supply Air	Abated Material	Surface	Canvas	B	Y					EA	V0010	[None]	50-75%	[Abated]
Duct	Supply Air	Abated Material	Surface	Canvas	B	Y					SF	V0010	[None]	50-75%	[Abated]
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	Not Applicable	N/A	B	Y		6			EA	V0000	Non-Asbestos		None
Other	Not Found	NI	No Information	NI											
Piping	Chilled Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Chilled Water Return	Parging over Fibreglass	Fire blanket	Canvas	C	Y		5			EA	V0007	None Detected	N.D.	None
Piping	Chilled Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Chilled Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		3			EA	V0007	None Detected	N.D.	None
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging Cement	Fitting	Canvas	C	Y		3			EA	S0031	None Detected	N.D.	None
Piping	Heating Water Return	Parging Cement	Fitting	Canvas	C	Y		20			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging Cement	Fitting	Canvas	C	Y		34			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		4			EA	S0032	None Detected	N.D.	None
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Concrete (poured)	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifier**
Location: #105 : Secondary Clarifier S685 adjacent to tank near Electrical Rm **Floor: Main** **Room #:** **Area (sqft): 0**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Duct	Air Handling Unit	Fibreglass w/Parging	Surface	Canvas	B	Y		100			%	S0030	None Detected	N.D.	None
Duct	Air Handling Unit	Abated Material	Surface	Canvas	B	Y					SF	S0022	[None]	50-75%	[Abated]
Duct	Air Handling Unit	Abated Material	Surface	Canvas	B	Y					SF	V9500	[None]		[Abated]
Other	Debris	Abated Material	Debris	N/A	B	Y					SF	V0022	[None]	50-75%	[Abated]
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)

Sample S0022 (S0002A Lab Ref b102715) Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifier**
Location: #106 : Secondary Clarifier adjacent to tank near Equipment Handling **Floor: Main** **Room #:** **Area (sqft): 0**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Duct	Air Handling Unit	Abated Material	Surface	Canvas	C	Y					%	V9500	[None]		[Abated]
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)

Area for Survey Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifier**
Location: #107 : Secondary Clarifier adjacent to tank near NW side Hallway/Of **Floor: Main** **Room #:** **Area (sqft): 0**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Duct	Air Handling Unit	Abated Material	Surface	Canvas	C	Y					%	V9500	[None]		[Abated]
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifier**
Location: #108 : Secondary Clarifier adjacent to tank near SW side Hallway/Of **Floor: Main** **Room #:** **Area (sqft): 0**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Duct	Air Handling Unit	Abated Material	Surface	Canvas	C	Y					%	V9500	[None]		[Abated]
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 6 : Secondary Clarifier**

Location: #113 : Exterior Wall of Secondary Clarifier Bldg **Floor: Main** **Room #: Exterior W** **Area (sqft): 0**

Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Wall	All	Mortar	Surface	Quarry tile	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall	Exterior	Plaster	Base	N/A	A	Y		1000			SF	S0027	Chrysotile	5-10%	Confirmed Asbestos(PF)
Wall	Exterior	Plaster	Surface	N/A	A	Y		100			%	S0028	None Detected	N.D.	None
Wall	Exterior	Plaster		Marble	D	N						S0033	[None]		[None]
Wall	Exterior	Mastic, Black		Plaster	D	N						S0033	[None]		[None]
Wall	Exterior	Mortar	Surface	N/A	A	Y		100				S0029	None Detected	N.D.	None

Mortar on stone walls is presumed asbestos containing.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 7 : Service Building**
Location: #64 : Service Building - Stairwell **Floor: Mezzanine-Service Building** **Room #:** **Area (sqft): 150**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Fibreglass	Surface	Canvas	C	Y									
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 7 : Service Building**

Location: #65 : Service Building - Mechanical Room **Floor: Mezzanine-Service Building** **Room #:** **Area (sqft): 1200**

Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Fresh Air Intake	Abated Material	Surface	Canvas	B	Y					SF	V0010	[None]	50-75%	[Abated]
Duct	Supply Air	Abated Material	Surface	Canvas	B	Y					SF	V0010	[None]	50-75%	[Abated]
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Chilled Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Chilled Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		6			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Chilled Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Chilled Water Supply	Abated Material	Fitting	Canvas	C	Y					EA	V9500	[None]		[Abated]
Piping		Fibreglass	Straight	Canvas	C	Y									
Piping		Parging over Fibreglass	Fitting	Canvas	C	Y		12			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping		Fibreglass	Straight	Canvas	C	Y									
Piping		Parging over Fibreglass	Fitting	Canvas	C	Y		13			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		55			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		44			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 7 : Service Building**

Location: #66 : Service Building - Mezzanine Storage **Floor: Mezzanine-Service Building** **Room #:** **Area (sqft): 750**

Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Fibreglass w/Parging	Surface	Canvas	C	Y		120			SF	V0010	Chrysotile	50-75%	Confirmed Asbestos(F)
Floor		Concrete (poured)	No Information	NI								IN	None Detected	N.D.	
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 7 : Service Building**
Location: #67 : Service Building - Stairwell **Floor: Mezzanine-Service Building** **Room #:** **Area (sqft): 150**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		5			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		4			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 7 : Service Building**
Location: #68 : Service Building - Work Shop **Floor: Main-Service Building** **Room #:** **Area (sqft): 2400**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS

System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Air Handling Unit	Abated Material	Surface	Canvas	C	Y					SF	S0019	[None]	25-50%	[Abated]
Duct	Supply Air	Fibreglass	Surface	Canvas	C	Y		60			SF	V0000	Non-Asbestos		None
Duct	Supply Air	Fibreglass w/Parging	Surface	Canvas	C	Y		100			SF	V0010	Chrysotile	50-75%	Confirmed Asbestos(F)
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI							%				
Piping		Parging over Fibreglass	Fitting	Canvas	C	Y		1			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Cold Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Cold Water Return	Parging Cement	Fitting	Canvas	C	Y		2			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Chilled Water System	Fibreglass	Straight	Canvas	C	Y									
Piping	Chilled Water System	Parging over Fibreglass	Fitting	Canvas	C	Y		2			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Glycol	Parging over Fibreglass	Fitting	Canvas	C	Y			1		EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping		Fibreglass	Straight	Canvas	C	Y									
Piping		Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		17			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		19			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 7 : Service Building**

Location: #69 : Service Building - Generator Room **Floor: Main-Service Building** **Room #:** **Area (sqft): 450**

Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Generator Exhaust	Magnesia block	Surface	Canvas	C	Y		12			LF	S0013	None Detected	N.D.	None
Duct	Supply Air	Fibreglass	Surface	Canvas	B	Y									
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Generator Unit	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		3			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		3			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 7 : Service Building**
Location: #70 : Service Building - Storage Room **Floor: Main-Service Building** **Room #:** **Area (sqft): 300**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Straight	Canvas	C	Y		1	1		EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		3			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 7 : Service Building**
Location: #71 : Service Building - Electrical Room **Floor: Main-Service Building** **Room #:** **Area (sqft): 400**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Fibreglass w/Parging	Surface	Canvas	C	Y		20			SF	V0010	Chrysotile	50-75%	Confirmed Asbestos(F)
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Electrical Panel	Not Insulated	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		6			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		6			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 7 : Service Building**
Location: #72 : Service Building - Storage Room **Floor: Main-Service Building** **Room #:** **Area (sqft): 600**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Abated Material	Surface	Canvas	C	Y					SF	V0010	[None]	50-75%	[Abated]
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Domestic Water (Hot and Cold)	Fibreglass	No Information		B	Y									
Piping	Rain Water Leader	Not Insulated	No Information	Canvas							EA				
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

Piping - domestic water installed 1993 Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 7 : Service Building**
Location: #73 : Service Building - Washroom **Floor: Main-Service Building** **Room #:** **Area (sqft): 130**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Fibreglass w/Parging	Surface	Canvas	C	Y		15			SF	V0010	Chrysotile	50-75%	Confirmed Asbestos(F)
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Not Insulated	Fitting	Canvas	C	Y									
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Not Insulated	Fitting	Canvas	C	Y									
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 7 : Service Building**
Location: #74 : Service Building - Stairwell **Floor: Main-Service Building** **Room #:** **Area (sqft): 160**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 7 : Service Building**
Location: #75 : Service Building - Control Room **Floor: Basement-Service Building** **Room #:** **Area (sqft): 224**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		224			SF	V0005	None Detected	N.D.	None
Duct	Supply Air	Fibreglass	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		224			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Electrical Panel	Not Insulated	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Drywall (no compound)													
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 7 : Service Building**
Location: #76 : Service Building - Boiler Room **Floor: Basement-Service Building** **Room #:** **Area (sqft): 3600**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Exhaust	Fibreglass w/Parging	Surface	Canvas	C	Y		100			SF	V0010	Chrysotile	50-75%	Confirmed Asbestos(F)
Duct	Return Air	Fibreglass	Surface	Canvas	C	Y									
Duct	Supply Air	Fibreglass w/Parging	Surface	Canvas	C	Y		120			SF	V0010	Chrysotile	50-75%	Confirmed Asbestos(F)
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Boiler	Not Insulated	No Information	NI											
Mechanical Equipment	Boiler	Not Insulated	No Information	NI											
Mechanical Equipment	Boiler	Not Insulated	No Information	NI											
Mechanical Equipment	Boiler	Refractory Ceramic Fibre	Insulation	N/A	B	N		90			SF	S0017	None Detected	N.D.	None
Mechanical Equipment	Breeching	Parging over Fibreglass	Surface	Canvas	C	Y		1200			SF	S0016	Chrysotile	50-75%	Confirmed Asbestos(F)
Mechanical Equipment	Exchanger	Fibreglass w/Parging	Surface	Canvas	B	Y		25			SF	S0015	Chrysotile	50-75%	Confirmed Asbestos(F)
Mechanical Equipment		Not Insulated	No Information	NI											
Mechanical Equipment		Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping		Parging over Fibreglass	Fitting	Canvas	C	Y		14			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Chilled Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Chilled Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		10			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Chilled Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Chilled Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		34			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Domestic Water (Hot and Cold)	Fibreglass	Straight	Canvas	C	Y									
Piping	Domestic Water (Hot and Cold)	Parging over Fibreglass	Fitting	Canvas	C	Y		5			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping		Fibreglass	Straight	Canvas	C	Y					N				
Piping		Parging over Fibreglass	Fitting	Canvas	C	Y		15			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	High Pressure Steam	Fibreglass	Straight	Canvas	C	Y									

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Piping	High Pressure Steam	Parging over Fibreglass	Fitting	Canvas	C	Y		21			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		18			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		37			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Low Pressure Steam	Fibreglass	Straight	Canvas	C	Y									
Piping	Low Pressure Steam	Parging over Fibreglass	Fitting	Canvas	C	Y		30			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Concrete (poured)	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 7 : Service Building**
Location: #115 : Exterior Wall of Service Bldg **Floor: Main** **Room #: Exterior W** **Area (sqft): 0**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Wall	All	Mortar	Surface	Quarry tile	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall	Exterior	Plaster	Base	N/A	A	Y		120			SF	S0027	Chrysotile	5-10%	Confirmed Asbestos(PF)
Wall	Exterior	Marble	Surface	N/A	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Exterior Wall of Service Bldg October 2014 Proj 95079 Roof needs to be tested prior to any renovation or demolition activities. Mortar on stone walls is presumed asbestos containing.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

ALL DATA REPORT

PINCHIN
1.855.PINCHIN www.pinchin.com

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 10 : Standby Power Building**
Location: #114 : Exterior Wall of Standby Power Bldg **Floor: Main** **Room #: Extrior Wa** **Area (sqft): 0**
Survey Date: 2014-10-07 **Last Re-Assessment:**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Wall	Exterior	Plaster	Base	N/A	A	Y		100			%	S0001	None Detected	N.D.	None
Wall	Exterior	Marble	Surface	N/A	A	Y		100			%	V9000	Confirmed Asbestos		Confirmed Asbestos(NF)

Exterior Wall of Standby Power Bldg October 2014 Proj 95079 Roof needs to be tested prior to any renovation or demolition activities.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

ALL DATA REPORT

PINCHIN
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Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 8 : Unox Building**
Location: #98 : Unox - Unox Equipment Room **Floor: Ground-Unox Building** **Room #:** **Area (sqft): 3000**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Texture Coat	Surface	N/A	C	Y		4000			SF	S0037	Chrysotile	5-10%	Confirmed Asbestos(F)
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Fibreglass w/Parging	Surface	Canvas	C	Y		600			SF	S0036	Chrysotile	>75%	Confirmed Asbestos(F)
Floor	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Floor		Plaster	Base	Ceramic Tiles	A	N		100			%	S0030	None Detected	N.D.	None
Floor		Ceramic Tiles	No Information	NI								S0029	None Detected	N.D.	None
Mechanical Equipment	Not Found	NI	No Information	NI											
Piping	Chilled Water Return	Parging Cement	Fitting	Canvas	C	Y		2			EA	S0039	None Detected	N.D.	None
Piping	Chilled Water Supply	Parging Cement	Fitting	Canvas	C	Y		2			EA	S0040	None Detected	N.D.	None
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		12			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		13			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping		Fibreglass	Fitting	Canvas	C	Y						S0027	None Detected	N.D.	None
Piping		Fibreglass	Straight	Canvas	C	Y						S0028	None Detected	N.D.	None
Piping		Parging Cement	Fitting	Canvas	C	Y		3			EA	S0038	None Detected	N.D.	None
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing. Setting compound on ceramic floor tiles is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 8 : Unox Building**
Location: #99 : Unox - PSA Compressor Room **Floor: Ground-Unox Building** **Room #:** **Area (sqft): 0**
Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	Ceiling Tiles (lay-in)	Surface	NI	C	Y		100			%	S0031	None Detected	N.D.	None
Duct	Not Found	NI	No Information	NI											
Floor	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Electrical Panel	Not Insulated	No Information	NI											
Piping		Fibreglass	Fitting	Canvas	B	Y						S0032	None Detected	N.D.	None
Piping		Fibreglass	Straight	Canvas	B	Y					N	S0033	None Detected	N.D.	None
Piping		Fibreglass	Fitting	Canvas	B	Y						S0034	None Detected	N.D.	None
Piping		Fibreglass	Straight	Canvas	B	Y						S0035	None Detected	N.D.	None
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing. Setting compound on ceramic floor tiles is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 8 : Unox Building**

Location: #100 : Unox - Oxygen Reactor Junction Chamber **Floor: Ground-Unox Building** **Room #:** **Area (sqft): 1000**

Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Return Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Heating Water Tank	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Particle Board w/P. Lam	A	Y					%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: South End Water Pollution Control Centre** **Building Name: 8 : Unox Building**

Location: #104 : Unox Bldg - Ground - Garage/Truck Bay (is location 96 as wel **Floor: Ground-Unox Building** **Room #:** **Area (sqft): 1500**

Survey Date: 2006-04-25 **Last Re-Assessment: 2019-07-30**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	N/A	No Information	N/A											
Duct	Supply Air	Steel	Surface	None Found	C	Y									
Floor	All	Concrete (poured)	Not Applicable	N/A	A	Y									
Mechanical Equipment	Motor	Steel	Surface	None Found	C	Y									
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Abated Material	Fitting	Canvas	C	Y					EA	V9500	[None]		[Abated]
Piping	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Supply	Abated Material	Fitting	Canvas	C	Y					EA	V9500	[None]		[Abated]
Structure	Beam, Deck	Steel	Not Applicable	Paint	C	Y									
Structure	Beam, Deck	Concrete (precast)	Not Applicable	None Found	C	Y									
Wall		Masonry	No Information	None Found											

Ground - Garage/Truck Bay (is location 96 as well)

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

FINAL

Asbestos Reassessment

North End Water Pollution Control Centre
Administration Building
2230 Main Street,
Winnipeg, Manitoba

Prepared for:

City of Winnipeg Water and Waste Department
110 – 1199 Pacific Avenue
Winnipeg, Manitoba R3E 3S8

October 14, 2021

Pinchin File: 289439

Issued to:	**City of Winnipeg Water and Waste Department**
Issued on:	**October 14, 2021**
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EXECUTIVE SUMMARY

City of Winnipeg Water and Waste Department (Client) retained Pinchin Ltd. (Pinchin) to conduct an asbestos building materials reassessment of the Administration Building located at 2230 Main Street, Winnipeg, Manitoba. The reassessment was performed on June 23, 2021.

The reassessment was based on information gathered from previous comprehensive assessment report completed by Pinchin. The original assessment report for the Administration Building was dated March 6, 2007. The results of the original report and subsequent survey update reports were reviewed prior to completing the reassessment.

The assessed area was limited to the parts of the building where the original report had indicated asbestos-containing materials (ACMs) were present. Rooms where no ACM's were reported were not inspected.

HMIS data has been updated online.

SUMMARY OF FINDINGS

Asbestos-containing materials (ACM) are present as follows:

- Asbestos-containing parging cement present on pipe fittings of the heating water, glycol, rainwater leader and domestic water pipe systems throughout the building are generally in GOOD condition with the exception of exposed/damaged parging cement rated in FAIR condition on 1 fitting within Location No.34.
- Asbestos-containing parging cement present on supply duct in the Chlorine Room (Location No. 9) and Second Floor Hallway (Location No. 39) is in GOOD condition.
- Asbestos-containing parging cement is present on a heat exchanger in the Northeast corner of the Fan Room (Location No. 16). Parging cement is a friable material which was jacketed with canvas and is in good condition.
- Parging cement present on the head tank that is located on the roof (Location No. 47) is a friable material. The parging cement was jacketed with canvas and in good condition.
- Asbestos-containing transite pipe present in the Surge Well Room (Location No. 21), Central Basement (Location No. 34) and Discharge Well Room (Location No. 43) is non-friable and in GOOD condition.
- Transite board presumed to contain asbestos present as ceiling finish with the Entrance/Exit, Location No.10 is non-friable and is in GOOD condition.

- Asbestos-containing mastic present within the Men's Locker Room (Location No. 18) is non friable and in GOOD condition.
- Drywall joint compound suspect to contain asbestos present as wall and ceiling finishes throughout the building is non-friable and generally in GOOD condition except for 10 SF in Fair condition within Location No.26.
- Vinyl floor tiles present within Corridor, Location No.39 are presumed to contain asbestos. Vinyl floor tiles are non-friable and are in GOOD condition.
- Terrazzo on the floor throughout the facility is presumed to contain asbestos and is non-friable and in GOOD condition.
- Ceramic tile setting compound where present throughout the building is presumed to contain asbestos. The setting compound is concealed behind ceramic tiles, is potentially friable and in GOOD condition; and
- Mortar present on hollow core walls throughout the facility is presumed to contain asbestos. All mortar is non-friable and is in GOOD condition.

SUMMARY OF RECOMMENDATIONS

The following is a summary of significant recommendations; refer to the body of the report for detailed recommendations.

1. The following items require remedial action:
    a. Repair following moderate risk (Type 2) procedures 10 SF of drywall joint compound in FAIR condition within the Balance Room, Location No.26.
    b. Repair following moderate risk (Type 2) procedures, damaged exposed parging cement rated in FAIR condition on 1 fitting within the Central Basement, Location No.34. The damaged fitting is adjacent AHU MF8.
2. Perform a reassessment of asbestos materials on an annual basis.
3. Prior to renovations or demolition, perform a pre-construction assessment to identify any hazardous materials that may be disturbed by the work.
4. Follow appropriate safe work procedures when handling or disturbing asbestos.

This Executive Summary is subject to the same standard limitations as contained in the report and must be read in conjunction with the entire report.

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APPENDICES

1.0 INTRODUCTION AND SCOPE

City of Winnipeg Water and Waste Department (Client) retained Pinchin Ltd. (Pinchin) to conduct an asbestos building materials reassessment of the Administration Building located at 2230 Main Street, Winnipeg, Manitoba.

Pinchin performed the reassessment on June 23, 2021. The surveyor was accompanied by City of Winnipeg Water and Waste Representatives during the reassessment. The assessed area was occupied at the time of the assessment.

The objectives of the reassessment were to document the locations, quantities and conditions of previously identified asbestos containing building materials and develop corrective action plans as required. This reassessment is only to be used for the purposes of long-term management and routine maintenance. The results of this reassessment are not to be used for construction, renovation, demolition or project tendering purposes.

1.1 Scope of Assessment

The objective of the reassessment was to evaluate the condition and quantity of previously reported asbestos-containing materials (ACM), and develop corrective action plans as required.

Additional objectives included the following:

- Documentation of any asbestos abatement that was performed since the last reassessment.

Please refer to Appendix I for a detailed description of the methodology used for this assessment.

2.0 METHODOLOGY

Pinchin conducted an inspection of previously identified asbestos-containing materials (ACM) to evaluate the current condition of all accessible identified in the most recent assessment. The surveyor made reference to any existing assessment or abatement reports (as provided by the Client).

As per the original scope of work, concealed locations such as ceiling spaces above solid ceilings, shafts and chases were accessed via existing access panels. Our investigation did not include demolition of drywall or plaster walls to view concealed conditions. Structural items or exterior building finishes were not removed to determine the presence of concealed materials.

For further details on the methodology including test methods, refer to Appendix I.

3.0 BACKGROUND INFORMATION

3.1 Existing Reports and Summary of Asbestos Abatement

3.1.1 Review of Previous Reports

The reassessment was based on information gathered from previous comprehensive assessment report completed by Pinchin. The original assessment report for the Administration Building was dated March 6, 2007. The results of the original report and subsequent survey update reports were reviewed prior to completing the reassessment.

3.1.2 Summary of Asbestos Abatement since the Previous Assessment

Abatement work has been completed on site since the last assessment. Based on a review of the above noted abatement reports, and observations made during the reassessment, the following abatement work has been conducted, since completion of the previous report:

- Damaged/exposed parging cement was removed from 3 fittings within the Gallery 2, Location No.32.

3.2 Inaccessible Locations

The following rooms or areas, within the assessed area, were not accessible to the surveyor and are therefore not included in the report:

Area or Room	Reason	Previously identified ACM not inspected, and condition
Discharge Well, Location No.43	Unauthorized access	Transite cement pipe, Parging cement on Rainwater Leader fitting, GOOD condition

4.0 FINDINGS

The following section summarizes the findings of the reassessment and provides a general description of the asbestos-containing materials (ACM) identified and their locations.

For details on approximate quantities, condition, friability and locations of asbestos materials; refer to the Asbestos Material Summary Report and HMIS Data Report in Appendix III and IV.

4.1 Pipe Insulation

Asbestos-containing parging cement present on pipe fittings of the heating water, glycol, rainwater leader and domestic water pipe systems throughout the building were generally in GOOD condition with the exception of the following damage:

Location	Quantity and Condition of Damage
Central Basement (Location No. 34)	Damaged/exposed parging cement on 1 fitting of the Heating water return system is rated in FAIR condition

Damaged/exposed parging cement in FAIR Condition, Location No,34.

4.2 Duct Insulation and Mastic

Asbestos-containing parging cement is present as duct insulation on supply ducting within the Chlorine Room (Location No. 9) and Second Floor Hallway (Location No. 39). The parging cement is jacketed with canvas. Parging cement is a friable material which has been maintained in GOOD condition.

Mastic applied to uninsulated duct joints in the Men's Locker Room (Location No. 18) contains asbestos. The mastic is non-friable and is in GOOD condition.

Asbestos-containing parging cement on ducting in GOOD condition.

4.3 Mechanical Equipment Insulation

Asbestos-containing parging cement is present as insulation on the heat exchanger located in the Northeast corner of the Fan Room (Location No. 16), and the head tank located on the roof (Location No. 47). The parging cement is a friable material which is jacketed with canvas. The parging cement is in good condition.

4.4 Drywall Joint Compound

Drywall (gypsum board) and drywall joint compound is present as wall and ceiling finishes throughout the building. No sampling has been conducted. In the absence of sampling all drywall joint compound must be presumed to contain asbestos. Drywall joint compound is a non-friable material while in place but can generate friable dust upon removal. All drywall joint compound is in GOOD condition except for 10 SF of damaged rated in FAIR condition within the Balance Room, Location No.26.

Damaged drywall joint compound, Location No.26

Damaged drywall joint compound, Location No.26

4.5 Asbestos Cement Products (Transite)

Asbestos cement pipe is present in the Surge Well Room (Location No. 21) and Central Basement (Location No. 34). Asbestos cement is non-friable and is in GOOD condition. Asbestos cement pipe present within the Discharge Well Room (Location No. 43) was not accessible during our reassessment.

Transite board presumed to contain asbestos is present as ceiling finish within the Entrance/Exit, Location No.10. The transite board is non-friable and is in GOOD condition.

Transite cement board presumed to contain asbestos in GOOD condition.

4.6 Vinyl Floor Tiles, Baseboard, and Stair Flooring

Vinyl floor tiles present within Corridor, Location No.39 are presumed to contain asbestos. Vinyl floor tiles are non-friable and are in GOOD condition.

Vinyl floor tiles presumed to contain asbestos, Location No.39.

4.7 Roofing Products

No visual inspection or sampling was conducted at this location. Destructive testing will be required prior to any renovation or demolition activities.

4.8 Other Building Materials

Terrazzo on the floor throughout the facility is presumed to contain asbestos, is non friable and is in GOOD condition.

Mortar present on hollow core walls throughout the facility is presumed to contain asbestos. The mortar is non-friable and is in GOOD condition.

Ceramic tile setting compound throughout the facility is presumed to contain asbestos, is potentially friable and is concealed behind ceramic tiles.

4.9 Excluded Asbestos Materials

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

- Roofing felts and tar, mastics;
- Floor levelling compound;
- Elevator and lift brakes;
- Electrical components;
- Moulded plastic components (laboratory bench tops);
- Refractory materials and insulations in boilers, incinerators and stacks;
- Insulation under metal clad boilers and vessels;
- Mechanical packing, ropes and gaskets;
- Vermiculite;
- Adhesives and duct mastics;
- Caulking and putties;
- Fibre-reinforced paints and coatings;
- Paper products;
- Soffit and fascia boards;
- Fire resistant doors;
- Metal clad finishes (Galbestos);

- Stucco, plaster or other cementitious parge coatings;
- Vibration dampers on HVAC equipment;
- Ropes and gaskets in cast-iron bell and spigot joints; and
- Sealants on pipe threads.

5.0 RECOMMENDATIONS

5.1 General

Perform a detailed intrusive assessment prior to building renovation or demolition operations. The assessment should include; destructive testing (e.g. coring and/or removal of building finishes and components), sampling of other hazardous materials (lead, mercury, PCBs, mould, etc.), and materials not tested in this study (e.g. roofing materials, caulking, mastics).

5.2 Remedial Work

The following remedial work is recommended.

Material, Quantity & Condition	Location Name (Location #)	Recommended Procedure
Drywall joint compound, 10 SF FAIR condition	Balance Room, Location No.26	Remove in accordance with Moderate Risk Procedures
Parging cement, 1 fitting FAIR condition	Central Basement, Location No.34 Adjacent AHU MF8	Repair in accordance with Moderate Risk Procedures

5.3 On-going Management and Maintenance

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

Perform a reassessment of asbestos materials on an annual basis.

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

Update the asbestos inventory report for the building upon completion of any abatement of ACM.

6.0 TERMS AND LIMITATIONS

This work was performed subject to the Terms and Limitations presented or referenced in the proposal for this project.

Information provided by Pinchin is intended for Client use only. Pinchin will not provide results or information to any party unless disclosure by Pinchin is required by law. Any use by a third party of reports or documents authored by Pinchin or any reliance by a third party on or decisions made by a third party based on the findings described in said documents, is the sole responsibility of such third parties. Pinchin accepts no responsibility for damages suffered by any third party as a result of decisions made or actions conducted. No other warranties are implied or expressed.

7.0 REFERENCES

The following legislation and documents were referenced in completing the assessment and this report:

1. Workplace Safety and Health Act W210.
2. Workplace Safety and Health Hazard Regulation (Manitoba Regulation 217/2006), under the Workplace Safety and Health Act.
3. Manitoba Regulation MR 474/88, Manitoba PCB Regulation made under The Dangerous Goods Act.
4. Guide for Asbestos Management – Safe Work Manitoba.
5. Guideline Managing Demolition Debris Containing Hazardous Materials – Environmental Enforcement and Compliance Branch – Manitoba Conservation and Climate
6. Consolidated Transportation of Dangerous Goods Regulations, including Amendment SOR/2019-101, Transportation of Dangerous Goods Act.

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Template: Master Report for Asbestos Reassessment, HAZ, July 29, 2021

APPENDIX I

Methodology

1.0 METHODOLOGY

Pinchin conducts an inspection of previously identified asbestos-containing materials (ACM) to evaluate the current condition of all accessible identified in the most recent assessment. The surveyor makes reference to any existing assessment or abatement reports (as provided by the Client).

1.1 Limitations on Scope

The reassessment excludes the following:

- Articles belonging to the owner, tenant or occupant (e.g. stored items, furniture, appliances, etc.);
- Underground materials or equipment (e.g. vessels, drums, underground storage tanks, pipes, etc.);
- Building envelope, structural components, inaccessible or concealed materials or other items where sampling may cause consequential damage to the property.
- Energized systems (e.g. internal boiler components, elevators, mechanical or electrical components);
- Controlled products (e.g. stored chemicals, operational or process-related substances); and
- Materials not typically associated with construction (e.g. settled dust, spills, residual contamination from prior spills, etc.).

As per the original scope of work, concealed locations such as ceiling spaces above solid ceilings, shafts and chases are accessed via existing access panels. Our investigation does not include demolition of drywall or plaster walls to view concealed conditions. Structural items or exterior building finishes are not removed to determine the presence of concealed materials.

1.2 Methodology

Existing sampling data is reviewed and relied upon. If sampling is conducted, samples are collected at a rate that is in compliance with the requirements of local regulations and guidelines. The sampling strategy is also based on known ban dates and phase out dates of the use of asbestos; sampling of certain building materials is not conducted after specific construction dates. In addition, to be conservative, several years past these dates are added to account for some uncertainty in the exact start / finish date of construction and associated usage of ACM.

Materials listed as exclusions in the previous reports remain as exclusions. Sampling, assessment or verification of excluded materials was not conducted.

If present, the following materials are presumed to be asbestos-containing and are best sampled immediately prior to commencing renovation/disturbance:

- Roofing felts and tar, mastics;
- Floor levelling compound;
- Ceramic tile setting compound;
- Elevator and lift brakes;
- Electrical components or wiring within control centers, breakers, motors or lights, insulation on wiring;
- Moulded plastic components (laboratory bench tops);
- Refractory materials and insulations in boilers, incinerators and stacks;
- Insulation under metal clad boilers and vessels;
- Mechanical packing, ropes and gaskets;
- Vermiculite;
- Adhesives and duct mastics;
- Caulking and putties;
- Fibre-reinforced paints and coatings;
- Paper products;
- Soffit and fascia boards;
- Fire resistant doors;
- Metal clad finishes;
- Exterior cladding;
- Stucco, plaster or other cementitious parge coatings; and
- Vibration dampers on HVAC equipment.

2.0 ANALYSIS AND IDENTIFICATION OF ASBESTOS MATERIALS

Pinchin relies on the analytical results of prior surveys. Asbestos bulk samples (if required) are analyzed at an independent NVLAP accredited laboratory. Preliminary identification of asbestos fibres is made using polarized light microscopy, with confirmation of the presence and type of asbestos made by dispersion staining optical microscopy. The analysis is performed in accordance with Test Method EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials, June 1993. All independent laboratories used by Pinchin, including our laboratory, are certified under the National Voluntary Laboratory Accreditation Program (NVLAP) to perform asbestos analysis of bulk samples.

Analytical results are compared to the following criteria:

Jurisdiction	Friable	Non-Friable
Manitoba	0.1%[1]	1%
Federal	1%	1%

The asbestos analysis is completed using a stop positive approach. Only one result meeting the above regulated criteria is required to determine that a material is asbestos-containing, but all samples must be analyzed to conclusively determine that a material is non-asbestos. The laboratory stops analyzing samples from a homogeneous material once a result equal to or greater than the regulated criteria is detected in any of the samples of that material. All samples of a homogeneous material are analyzed if no asbestos is detected. In some cases, all samples are analyzed in the sample set regardless of result.

Where building materials are described in the report as “non-asbestos” or “does not contain asbestos”, this means that either no asbestos was detected by the analytical method utilized in any of the multiple samples or, if detected, it is below the lower limit of an asbestos-containing material in the applicable regulation.

Asbestos materials are evaluated in order to make recommendations regarding remedial work. The priority for remedial action is based on several factors:

- Friability (friable or non-friable);
- Condition (good, fair, poor, debris);
- Accessibility (ranking from accessible to all building users to inaccessible);
- Visibility (whether the material is obscured by other building components); and
- Efficiency of the work (for example, if damaged ACM is being removed in an area, it may be most practical to remove all ACM in the area even if it is in good condition).

For a complete description of the Evaluation Criteria and Basis of Recommendations, refer to Annex A.

Template: Methodology for Asbestos Re-Assessment, HAZ, January 10, 2020

METHODOLOGY ANNEX A EVALUATION CRITERIA

1.0 EVALUATION CRITERIA AND BASIS OF RECOMMENDATIONS

The detailed asbestos assessment provides information regarding the location, condition, accessibility and friability of the asbestos-containing materials (ACM). In order to make recommendations for compliance with current regulations, Pinchin developed the following criteria.

2.0 EVALUATION OF CONDITION

2.1 Friable Sprayed or Trowelled Fireproofing, Thermal Insulation and Texture Finishes (Surfacing Materials)

To evaluate the condition of ACM sprayed or trowelled on fireproofing, sprayed or trowelled thermal insulation (non-mechanical), or texture, decorative or acoustic finishes, the following criteria are applied:

Good	Surface of material shows no significant signs of damage, deterioration or delamination. Good condition includes unencapsulated or unpainted fireproofing or texture finishes, where no or limited delamination or damage is observed, or encapsulated fireproofing or texture finishes where the encapsulant or paint has been applied after the damage or fallout occurred.
Poor	A sprayed material that shows signs of significant damage or is significantly delaminating or deteriorating. This may be limited to surface delamination or some portion of the substrate may be exposed.

In Locations where damage exists in isolated areas, both good and poor condition may be applicable. The extent of each condition will be recorded. Fair condition is not utilized in the evaluation of ACM sprayed or trowelled fireproofing, sprayed or trowelled thermal insulation (non-mechanical), or texture, decorative or acoustic finishes.

The evaluation of the above products above ceilings may be limited by the number of observations and by building components such as ducts or full height walls that obstruct the above ceiling observations.

2.2 Friable Mechanical or Thermal System Insulation (TSI)

To evaluate the condition of mechanical insulation on vessels, boilers, breeching, ducts, pipes, fan units, equipment etc. the following criteria are applied:

Good	Insulation is completely covered in jacketing and exhibits no evidence of damage or deterioration. No insulation is exposed. Includes conditions where the jacketing has minor damage (i.e. scuffs or stains), but the jacketing is not penetrated.
Fair	Minor penetrating damage to jacketed insulation (cuts, tears, nicks, deterioration or delamination) or undamaged insulation that has never been jacketed. Insulation is exposed but not showing surface disintegration. The extent of missing insulation ranges from minor to none. Damage can be repaired.
Poor	Original insulation jacket is missing, damaged, deteriorated or delaminated. Insulation is exposed and significant areas have been dislodged. Damage cannot be readily repaired. Includes components where insulation may have been removed incompletely.

The evaluation of mechanical insulation may be limited by the number of observations made and building components such as ducts or full height walls that obstruct observations. It is often not possible to observe each foot of mechanical insulation from all angles.

2.3 Potentially Friable Materials and Miscellaneous Friable Materials

Potentially friable ACM are products that are basically non-friable while in place but have the potential to generate friable dust upon removal or if significantly disturbed without appropriate procedures. These products may become friable if damaged. Potentially friable materials include materials such as acoustic ceiling tiles and plaster. To evaluate the condition of potentially friable materials, the following criteria are applied:

Good	No significant damage or deterioration. Still serving its intended use as a building material or finish.
Fair	Showing signs of some cracking or breakage, but is not deteriorating (e.g. cracked plaster, broken but in place ceiling tile, missing tile or section of plaster etc.). The condition is such that it is still serving its intended use as a building material or finish but may require repair for mainly cosmetic purposes.
Poor	Significant deterioration or breaking apart of the material. Material has deteriorated to the point it is not serving its intended use as building material or finish. Material has deteriorated to a point it has become friable. Normally potentially friable ACM in Poor condition is not repairable and requires at least localized removal and replacement.

2.4 Non-Friable Materials

Non-friable ACM cover a wide range of products with a wide variation in their tendency to release dust or asbestos fibres to the air. Many of these materials, (particularly where the matrix is an unweathered bitumen, asphalt or tar material) do not release fibres except in very unusual circumstances or during significant disturbance (e.g. use of abrasive power tools). Others with a cementitious matrix (asbestos-cement products) can more readily release dust due to abrasion, demolition, weathering, etc. The potential for asbestos release from non-friable ACM is always lower than from friable ACM. To evaluate the condition of non-friable Materials, the following criteria are applied:

Good	No significant damage or deterioration. Still serving its intended use as a building material or finish.
Fair	Showing signs of some cracking or breakage but is not deteriorating (e.g. cracked vinyl floor tile, missing piece of tile or transite, etc.). The condition is such that it is still serving its intended use as a building material or finish but may require repair for mainly cosmetic purposes.
Poor	Significant deterioration or breaking apart of the material to the point at which it cannot be repaired, and it will require at least local removal. Material has deteriorated to the point it is not serving its intended use as building material or finish. Material may have deteriorated to a point where traffic or disturbance may cause it to become friable.

2.5 Evaluation of ACM Debris

The identification of the exact location or presence of debris on the top of ceiling tiles is limited by the number of observations made and the presence of building components such as ducts or full height walls that obstruct observations.

The presence of fallen or dislodged ACM is noted separately from the ACM source and is referred to as Debris. Debris may be friable if from a friable ACM source or a badly deteriorated non-friable ACM source. Debris may also be non-friable (such as fallen pieces of transite sheet or mastic fittings, or broken, dislodged floor tiles).

Debris	Debris may be friable or non-friable but is always identified as debris.

2.6 Evaluation of Presumed Asbestos-Containing Material (PACM)

Presumed asbestos-containing materials (PACM), are building materials that may contain asbestos but were not sampled or analyzed due to inaccessibility or the need to perform destructive testing to obtain a reasonable sample set. Evaluation of these materials is based on the assumption that these PACM are asbestos-containing.

A list of PACM is provided in the report and they are generally not included in the detailed room by room reports. Typically, they are excluded because they are inaccessible or present in very small quantities. If PACM are evaluated, Pinchin uses the criteria that correspond with the type (and friability) of the material listed above.

3.0 EVALUATION OF ACCESSIBILITY

The accessibility of building materials known or suspected of being ACM is rated according to the following criteria:

Access (A)	Common areas of the building within reach of all building users (approximately 8 ’-9’ from floor or standard ceiling height). Includes other areas where occupant activities may result in disturbance of material that is not normally within reach from floor level, but may be disturbed by common activities (e.g. gymnasiums, workshops, warehouses)
Access (B)	Areas of the building accessed primarily by Maintenance/Caretaking/Janitorial Staff and within reach without use of a ladder. Includes areas within reach in Boiler Rooms, Electrical Rooms, Janitors Closets, Elevator Rooms, Mechanical Rooms, etc. Includes materials within reach from fixed ladders or catwalks, mezzanines, and accessible pipe chases.
Access (C) and Visible	Areas of the building above 8' - 9’ where use of a ladder or scaffold is required to reach the ACM. Only includes ACM that are visible to view without the removal or opening of other building components such as ceiling tiles or service access panels. Visible column on HMIS sheets will say YES.
Access (C) and not Visible	Areas of the building above 8' - 9’ where use of a ladder or scaffold is required to reach the ACM. Includes ACM that are not visible to view and require the removal of a building component to see, such as ceilings tiles or access panels to view and access. Includes rarely entered crawl spaces, attic spaces, etc. Observations will be limited to the extent visible from the access points. Visible column on HMIS sheets will say NO.
Access (D)	Areas of the building behind inaccessible solid ceiling systems, walls or equipment etc. where demolition of the ceiling, wall or equipment etc. is required to reach the ACM. Material inaccessible due to height or location or is only accessed under unusual situations. Evaluation of condition and extent of ACM is limited or impossible, depending on the surveyor's ability to visually examine materials in Access D.

4.0 ACTION MATRIX AND DEFINITIONS

Pinchin’s evaluation of the viability of a specific asbestos control option is based on the consideration of the friability, condition, accessibility and visibility of a material. The logic used is that damaged ACM located in an area frequently accessed by all building occupants is of a higher priority than damaged ACM located in an infrequently accessed service area. The action matrix considers the potential for fibre release (primarily from friable ACM) and the possible concerns from regulatory bodies and many building occupants to all damaged ACM (including non-friable).

In any building with asbestos, many current regulations require an Asbestos Management Program be implemented. Depending on the condition and the accessibility, more active measures such as repair or removal may be recommended. The following matrix provides guidance for recommended Actions in the absence of renovation or demolition. In the event of construction or maintenance activity which will disturb ACM more aggressive control or removal will be required.

4.1 Action Matrix

The following tables outline the action decisions based on the relationship of assessed factors. Table I applies to friable ACM. Table II applies to non-friable ACM.

Table I Decision Matrix for Friable ACM

	Condition			
Access	**Good**	**Fair**	**Poor**	**Debris**
(A)	Action 5[1]	Action 5[2]	Action 3	Action 1
(B)	Action 7	Action 6[3]	Action 3	Action 1
(C) Visible	Action 7	Action 6	Action 3	Action 2
(C) Not Visible	Action 7	Action 7	Action 4	Action 2
(D)	Action 7	Action 7	Action 7	Action 7

Table II Decision Matrix for Potentially Friable and Non-Friable ACM

	Condition			
Access	**Good**	**Fair**	**Poor**	**Debris**
(A)	Action 7	Action 7[4]	Action 3	Action 1
(B)	Action 7	Action 7	Action 3	Action 1
(C) Visible	Action 7	Action 7	Action 4	Action 2
(C) Not Visible	Action 7	Action 7	Action 4	Action 2
(D)	Action 7	Action 7	Action 7	Action 7

[1] If friable ACM in access (A)/Good condition is not proactively removed Action 7 (Manage) is recommended.
[2] If friable ACM in access (A)/Fair condition is not proactively removed repair is recommended.
[3] If friable ACM in access (B)/Fair condition is likely to be disturbed after repair proactive removal is recommended.
[4] Action 7 is recommended for all non-friable ACM in Fair condition however some clients may wish to repair or take some action primarily for cosmetic reasons

4.2 Action Definitions

The following are the definitions in the Action Matrix Table presented above:

Action Definitions	
Action 1	Clean-Up of ACM Debris Restrict access that is likely to cause a disturbance of the ACM Debris and clean up ACM Debris. Utilize appropriate asbestos precautions.
Action 2	Precautions for Access Which may Disturb ACM Debris Use appropriate means to isolate the debris or to limit entry to the area which may disturb the material. At locations where ACM Debris can remain in place in lieu of removal or clean-up (e.g. Debris on top of ceiling tiles or behind lockable door), Utilize appropriate asbestos precautions to enter the area if this will disturb debris. The precautions will be required until the ACM Debris has been cleaned up.
Action 3	ACM Removal Remove ACM. Utilize asbestos procedures appropriate to the scope of the removal work. Until it is removed, restrict access to the material so it is not disturbed.
Action 4	Precautions for Work Which may Disturb ACM in Poor Condition. Utilize appropriate asbestos precautions if ACM may be disturbed by work on or near ACM. This does not require restricting access to the area, only control of work which may contact or disturb the ACM. Removal is the only viable option if work will disturb ACM.
Action 5	Proactive ACM Removal Remove friable ACM where the presence of friable asbestos in Good condition is not desirable. If friable ACM in Fair condition is not removed, then Repair friable ACM.
Action 6	ACM Repair Repair friable ACM in Fair condition which is not likely to be damaged again or disturbed by normal use of the area or room. Pinchin recommends proactive removal if friable ACM is likely to be damaged or disturbed during normal use of the area or room
Action 7	Asbestos Management Program with Routine Surveillance Implement an Asbestos Management Program, including routine surveillance of ACM. Reassess materials regularly (typically once per year).

Master Template: Methodology Annex A to Appendix I Evaluation Criteria, HAZ, January 10, 2020

APPENDIX II

Location Summary Report

Client:City of Winnipeg Water and Waste Dept **Site: NEWPC, Winnipeg, MB**
Building Name: Administration
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Foyer	32	Main-South	A	Grout (masonry mortar/cement/plaster) on marble wall tiles is presumed asbestos containing.
2	Washroom	40	Main-South	A	Adhesive/Grout (masonry mortar/cement/plaster) on ceramic floor & wall tiles is presumed asbestos containing.
3	Lobby	450	Main-South	A	Grout (masonry mortar/cement/plaster) on marble wall tiles is presumed asbestos containing.
4	Storage Room	240	Main-South	A	
5	Electrical/Mechanical Room	300	Main-South	A	
6	Control Room	100	Main-South	A	
7	Well Room	3600	Main-South	A	
8	Electrical Room	432	Main-South	A	
9	Chlorine Room	1600	Main-South	A	
10	Storage/Exit	40	Main-South	A	No access on ceiling space.
11	Foyer	40	Main-South	A	Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.
12	Men's Washroom	80	Main-South	A	Adhesive/Grout (masonry mortar/cement/plaster) on ceramic floor & wall tiles is presumed asbestos containing.
13	Women's Washroom	40	Main-South	A	Adhesive/Grout (masonry mortar/cement/plaster) on ceramic floor & wall tiles is presumed asbestos containing.
14	Foyer	60	Main-South	A	Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.
15	Lunchroom	1140	Main-South	A	
16	Fan Room	800	Main-South	A	
17	Hallway	400	Main-North	A	Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.
18	Men's Locker Room	1500	Main-North	A	Mastic sealant on seams of galvanized ductwork contains Chrysotile Asbestos, Lab report b80899 Sample No. 0003 Project 68112 reflected as Sample 0009 in HMIS Adhesive/Grout (masonry mortar/cement/plaster) on ceramic floor & wall tiles is presumed asbestos containing.
19	Soils	160	Main-North	A	Addidional sample of AT, lab report b80899, Sample No. 0002 ND. Project 68112 reflected as Sample 0008 in HMIS Adhesive/Grout (masonry mortar/cement/plaster) on ceramic wall tiles is presumed asbestos containing.
20	Lab Service Room	0	Main-North	A	Plaster sampled on lab wall report b80899 Sample No. 0001 Project 68112 reflected as Sample 0007 in HMIS Adhesive/Grout (masonry mortar/cement/plaster) on ceramic wall tiles is presumed asbestos containing.
21	Surge Well Room	600	Main-North	A	
22	R.O.-D.I. Water Room (Old Vent Equipment Room)	300	Main-North	A	Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.
23	Water Quality Laboratory	800	Main-North	A	Adhesive/Grout (masonry mortar/cement/plaster) on ceramic wall tiles is presumed asbestos containing.
24	Metal Analysis Room	250	Main-North	A	
25	Storage Room	220	Main-North	A	Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.
26	Balance Room	300	Main-North	A	
27	Gas Chromatography	220	Main-North	A	
28	Wastewater Laboratory	2100	Main-North	A	Adhesive/Grout (masonry mortar/cement/plaster) on ceramic wall tiles is presumed asbestos containing.
29	Nutrient Analysis Room	220	Main-North	A	

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
30	Carbon Analysis Room	400	Main-North	A	
31	Hallway	350	Main-North	A	
32	Gallery 2	750	Basement	A	
33	South Basement	5000	Basement	A	
34	Central Basement	10000	Basement	A	
35	Under Fan Room	1000	Basement	A	
36	Old Sewage Pit/Tank	2000	Basement	A	Parging debris on dirt. Lab report b80899, Sample No 0004. Project 68112 reflected as Sample 0010 in HMIS
37	North Basement/Laundry	10000	Basement	A	
38	Mezzanine	375	Second	A	Approximately 8 sq ft of plaster wall in poor condition and 10 sq ft of plaster debris found on top of ceiling tiles
39	Hallway	100	Second	A	
40	Washroom North	60	Second	A	Adhesive/Grout (masonry mortar/cement/plaster) on ceramic floor and wall tiles is presumed asbestos containing.
41	Office	150	Second	A	
42	Second Floor Venting Room	150	Second	A	
43	Discharge Well	2500	Second	A	Area is not accessible during time of inspection last August 14, 2015 and Aug 25, 2016 due to lock out/tag out on the access door.
44	Office	150	Second	A	No access on ceiling space
45	Sludge Manager Office	270	Second	A	
46	Washroom South	60	Second	A	Adhesive/Grout (masonry mortar/cement/plaster) on ceramic floor and wall tiles is presumed asbestos containing.
47	Head Tank	400	Third	A	Approximately 15 SF of Tank insulation in FAIR condition had been repaired. Advice COWWWD not to lean anything against the tank.
48	Exterior Wall, room no. Exterior	0	Main	A	Roof needs to be tested prior to any renovation or demolition activities. Adhesive/Grout (masonry mortar/cement/plaster) on brick walls is presumed asbestos containing.

APPENDIX III

Asbestos Material Summary Report / Sample Log

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

PINCHIN
1.855.PINCHIN www.pinchin.com

Client:City of Winnipeg Water and Waste Dept **Site: NEWPC, Winnipeg, MB** **Building Name: Administration** **Surveyor: Jason Combe** **Survey Date: 2006-04-19**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	S0001	PIPING, PIPING ONE | PARGING OVER FIBREGLASS | PARGING - FITTING - HWS - LOC 34	28,34	A	0	0	5	0	None Detected	No
Asbestos	S0002	WALL ONE | TEXTURE COAT | TEXTURE COAT - LOC 3	3	A	0	80	0	0	None Detected	No
Asbestos	S0003	PIPING, PIPING TWO | SWEAT WRAP PIPE INSULATION | SWEATWRAP - STRAIGHT RUN - RWL - LOC 46	2,4,9,15,40,43,44,46	A	82	0	0	0	None Detected	No
Asbestos	S0004	CEILING | CEILING TILES (LAY-IN) | CEILING TILE - LOC 42	6,11,12,13,14,15,17,18,19,22,23,24,26,27,28 29,30,31,41,42	A	0	8760	0	0	None Detected	No
Asbestos	S0005	MECHANICAL EQUIPMENT | FIBREGLASS W/PARGING | PARGING - EXCH - LOC 16	16	A	0	32	0	0	Chrysotile	Yes
Asbestos	S0006	DUCT, MECHANICAL EQUIPMENT | FIBREGLASS W/PARGING | PARGING - DUCT - FAI - LOC 9	9,39,47	A	0	1230	0	0	Chrysotile	Yes
Asbestos	S0007	OTHER, WALL | PLASTER | PLASTER CEMENT WALL, LABORATORY SERVICE ROOM (LOC 20), MAIN FLOOR-NORTH, ADMINISTRATION BLDG., NORTH END WATER POLLUTION CONTROL CENTRE	1,2,4,5,6,7,8,9,10,14,20,38,39,41,42,44,45	A	0	285	0	90	None Detected	No
Asbestos	S0008	CEILING | CEILING TILES (LAY-IN) | LAY-IN CEILING TILE 24" X 48" (PIN HOLES), SOILS RM. (LOC 19), MAIN FLOOR-NORTH, ADMINISTRATION BLDG., NORTH END WATER POLLUTION CONTROL CENTRE	19	A	0	160	0	0	None Detected	No
Asbestos	S0009	DUCT | ADHESIVE/MASTIC | MASTIC DUCT SEALANT, DUCT, AHU, MENS LOCKER ROOM (LOC 18), MAIN FLOOR-NORTH, ADMINISTRATION BLDG., NORTH END WATER POLLUTION CONTROL CENTRE	18	A	0	0	0	100	Chrysotile	Yes
Asbestos	S0011	CEILING, OTHER | PLASTER | PLASTER DEBRIS, ON TOP OF LAY-IN CEILING TILES, MEZZANINE (LOCATION 38), ADMINISTRATION BUILDING, NORTH END WATER POLLUTION CONTROL CENTRE	3,38	A	0	474	0	0	None Detected	No
Asbestos	S0012	WALL | PLASTER | PLASTER WALL, NORTH WALL, SOUTH WALL, NORTH WALL, LOBBY FLOOR (LOCATION 3), ADMINISTRATION BLDG, NEWPCC	3	A	0	0	0	100	None Detected	No
Asbestos	S0013	WALL | PLASTER | PLASTER WALL, EXTERIOR WALL ADMIN BLDG (SAMPLED OCTOBER 16, 2014 AS S0006 A TO C)	48	A	0	3100	0	0	None Detected	No
Asbestos	V0018	CEILING | PLASTER | PLASTER - CEILING FINISH	1,2,4,5,6,7,8,9,39,41,42,44,45,46	A	0	532	0	100	None Detected	No
Asbestos	V9000	PIPING | CEMENT PRODUCT |	21	A	17	0	0	0	Confirmed Asbestos	Yes
Asbestos	V9000	PIPING ONE | CEMENT PRODUCT |	43	A	100	0	0	0	Confirmed Asbestos	Yes
Asbestos	V9000	PIPING THREE | CEMENT PRODUCT	34	A	40	0	0	0	Confirmed	Yes

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
									Asbestos	
Asbestos	V9500	CEILING | CEMENT PRODUCT | TRANSITE CEMENT BOARD	10	A	0	40	0	0	Presumed Asbestos	Yes
Asbestos	V9500	CEILING | DRYWALL AND JOINT COMPOUND |	15,25	A	0	220	0	100	Presumed Asbestos	Yes
Asbestos	V9500	FLOOR | MORTAR |	2,12,13,18,40,46	A	0	0	0	86	Presumed Asbestos	Yes
Asbestos	V9500	FLOOR | TERRAZZO |	1,3,5,6,7,8,9,38	A	0	0	0	53	Presumed Asbestos	Yes
Asbestos	V9500	FLOOR | VINYL FLOOR TILE AND MASTIC |	39	A	0	100	0	0	Presumed Asbestos	Yes
Asbestos	V9500	PIPING | PARGING OVER FIBREGLASS |	3,5,7,8,9,15,16,18,23,32,33,34,44,46	A	0	0	156	0	Presumed Asbestos	Yes
Asbestos	V9500	PIPING ONE | PARGING OVER FIBREGLASS |	32,33,34,35,37,47	A	0	0	228	0	Presumed Asbestos	Yes
Asbestos	V9500	PIPING TWO | PARGING OVER FIBREGLASS |	35,37,43,47	A	0	0	143	0	Presumed Asbestos	Yes
Asbestos	V9500	PIPING THREE | PARGING OVER FIBREGLASS |	16,37,47	A	0	0	18	0	Presumed Asbestos	Yes
Asbestos	V9500	PIPING FOUR | PARGING OVER FIBREGLASS |	16,34,37	A	0	0	35	0	Presumed Asbestos	Yes
Asbestos	V9500	WALL | CERAMIC TILES | SETTING COMPOUND	24	A	0	0	0	6	Presumed Asbestos	Yes
Asbestos	V9500	WALL | DRYWALL (NO COMPOUND) |	12,15,22,23,24,25,26,27,28,29,30,31	A	0	0	0	75	Presumed Asbestos	Yes
Asbestos	V9500	WALL | MORTAR |	1,2,3,11,12,13,14,17,18,19,20,22,23,25,28,31 40,46,48	A	0	0	0	40	Presumed Asbestos	Yes
Asbestos	V9500	WALL | TERRAZZO	5,6,7,9	A	0	0	0	8	Presumed Asbestos	Yes
Asbestos	V0000	CEILING | CEILING TILE (MECHANICALLY FASTENED) |	44,45	A	0	0	0	100	Non Asbestos	No
Asbestos	V0000	FLOOR | DIRT |	36	A	0	0	0	0	Non Asbestos	No
Asbestos	V0000	FLOOR | VINYL SHEET FLOORING |	11,15,17,22,23,24,25,26,27,28,29,30,31	A	0	5600	0	0	Non Asbestos	No
Asbestos	V0000	FLOOR | VINYL SHEET FLOORING (NO MASTIC) | INSTALLED AFTER 1992 NOT PRESENT DURING ORIGINAL ASSESSMENT	19	A	0	0	0	100	Non Asbestos	No
Asbestos	V0000	PIPING | FIBREGLASS |	22	A	0	0	0	0	Non Asbestos	No
Asbestos	V0000	WALL | CLAY TILE (BLOCK) |	48	A	0	0	0	100	Non Asbestos	No
Asbestos	V0000	WALL | CONCRETE (PRECAST)	48	A	0	0	0	100	Non	No

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
									Asbestos	

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

APPENDIX IV

HMIS Data Report

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #1 : Foyer, Phase: A **Floor: Main-South** **Room #:** **Area (sqft): 32**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Plaster	Surface	Paint	C	Y		100			%	V0018	[None]		[None]
Duct	Not Found	NI	No Information	NI											
Floor	All	Terrazzo	Surface	N/A	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Not Accessible	NI	No Information	NI											
Wall	All	Mortar	Surface	Quarry tile	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Plaster	Surface	Marble	A	Y		100			%	S0007	[None]		[None]

Grout (masonry mortar/cement/plaster) on marble wall tiles is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #2 : Washroom, Phase: A **Floor: Main-South** **Room #:** **Area (sqft): 40**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Plaster	Surface	Paint	C	Y		100			%	V0018	None Detected	N.D.	None
Duct	Not Found	NI	No Information	NI											
Floor	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Floor		Ceramic Tiles	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Sweat Wrap pipe insulation	Straight	Canvas	B	Y		8			LF	V0003	None Detected	N.D.	None
Structure	Not Accessible	NI	No Information	NI											
Wall		Plaster	Surface	Paint	C	Y		25			SF	V0007	None Detected	N.D.	None
Wall	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Ceramic Tiles	No Information	NI											

Adhesive/Grout (masonry mortar/cement/plaster) on ceramic floor & wall tiles is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #3 : Lobby, Phase: A **Floor: Main-South** **Room #:** **Area (sqft): 450**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Plaster	Surface	Paint	C	N		242		10	SF	V0011	None Detected	N.D.	None
Duct	Not Found	NI	No Information	NI											
Floor	All	Terrazzo	Surface	N/A	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Debris	Plaster	Surface	N/A	C	N				12	SF	V0011	None Detected	N.D.	None
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		5			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Not Accessible	NI	No Information	NI											
Wall	All	Mortar	Surface	Quarry tile	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Plaster	Surface	Paint	A	Y		96		4	%	S0012	None Detected	N.D.	None
Wall one		Texture Coat	Surface	N/A	C	Y		80			SF	S0002	None Detected	N.D.	None

Grout (masonry mortar/cement/plaster) on marble wall tiles is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #4 : Storage Room, Phase: A **Floor: Main-South** **Room #:** **Area (sqft): 240**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Plaster	Surface	Paint	C	Y		97	3		SF	V0018	None Detected	N.D.	None
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Debris	Plaster	Surface	N/A	A	Y				2	SF	V0007	None Detected	N.D.	None
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Sweat Wrap pipe insulation	Straight	Canvas	B	Y		8			LF	V0003	None Detected	N.D.	None
Structure	Not Accessible	NI	No Information	NI											
Wall		Plaster	Surface	Paint	A	Y		249	1		SF	V0007	None Detected	N.D.	None

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #5 : Electrical/Mechanical Room, Phase: A **Floor: Main-South** **Room #:** **Area (sqft): 300**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Plaster	Surface	Paint	C	Y		100			%	V0018	None Detected	N.D.	None
Duct	Supply Air	Fibreglass	No Information	Foil Face											
Floor	All	Terrazzo	Surface	N/A	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		4			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Not Accessible	NI	No Information	NI											
Wall	All	Terrazzo	Surface	N/A	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Plaster	Surface	Paint	A	Y		100			%	V0007	None Detected	N.D.	None

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #6 : Control Room, Phase: A **Floor: Main-South** **Room #:** **Area (sqft): 100**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		100			SF	V0004	None Detected	N.D.	None
Ceiling		Plaster	Surface	Paint	C	N		100			%	V0018	None Detected	N.D.	None
Duct	Supply Air	Not Insulated	No Information	NI											
Floor	All	Terrazzo	Surface	N/A	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Not Accessible	NI	No Information	NI											
Wall	All	Terrazzo	Surface	N/A	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Plaster	Surface	Paint	A	Y		100			%	V0007	None Detected	N.D.	None

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #7 : Well Room, Phase: A **Floor: Main-South** **Room #:** **Area (sqft): 3600**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Plaster	Surface	Paint	C	Y		100			%	V0018	None Detected	N.D.	None
Duct	Not Found	NI	No Information	NI											
Floor	All	Terrazzo	Surface	N/A	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Debris	Abated Material	Surface	N/A	C	N					SF	V0007	[None]	N.D.	[Abated]
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Fibreglass	Straight	Canvas	C	Y									
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		6			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Not Accessible	NI	No Information	NI											
Wall	All	Terrazzo	Surface	N/A	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Plaster	Surface	Terrazzo	A	Y		99	1		%	V0007	None Detected	N.D.	None

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #8 : Electrical Room, Phase: A **Floor: Main-South** **Room #:** **Area (sqft): 432**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Plaster	Surface	Paint	C	N		432			SF	V0018	None Detected	N.D.	None
Ceiling		Metal	No Information	Paint											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor	All	Terrazzo	Surface	N/A	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Debris	Plaster	Surface	N/A	B	Y				2	SF	V0007	None Detected	N.D.	None
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	N									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	N		18			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Not Accessible	NI	No Information	NI											
Wall		Plaster	Surface	Paint	A	Y		98	2		%	V0007	None Detected	N.D.	None

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #9 : Chlorine Room, Phase: A **Floor: Main-South** **Room #:** **Area (sqft): 1600**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Plaster	Surface	Paint	C	Y		100			%	V0018	None Detected	N.D.	None
Duct	Fresh Air Intake	Fibreglass w/Parging	Surface	Canvas	B	Y		16			SF	S0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Floor	All	Terrazzo	Surface	N/A	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Mechanical Equipment	Fan Unit	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		3			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		3			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		3			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Rain Water Leader	Sweat Wrap pipe insulation	Straight	Canvas	C	Y		24			LF	V0003	None Detected	N.D.	None
Structure	Not Accessible	NI	No Information	NI											
Wall	All	Terrazzo	Surface	N/A	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Plaster	Surface	Terrazzo	A	Y		97	3		%	V0007	None Detected	N.D.	None

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #10 : Storage/Exit, Phase: A **Floor: Main-South** **Room #:** **Area (sqft): 40**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Cement Product, Transite cement board			C			40			SF	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Duct	Not Found	NI	No Information	NI											
Floor		Terrazzo	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Accessible														
Structure	Not Accessible	NI	No Information	NI											
Wall		Plaster	Surface	Paint	A	Y		100			%	V0007	None Detected	N.D.	None

No access on ceiling space.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #11 : Foyer, Phase: A **Floor: Main-South** **Room #:** **Area (sqft): 40**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		40			SF	V0004	None Detected	N.D.	None
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	NI	A	Y		40			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #12 : Men's Washroom, Phase: A **Floor: Main-South** **Room #:** **Area (sqft): 80**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		80			SF	V0004	None Detected	N.D.	None
Duct	Supply Air	Not Insulated	No Information	NI											
Floor	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Floor		Ceramic Tiles	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Drywall (no compound)		Ceramic Tiles	A	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)

Adhesive/Grout (masonry mortar/cement/plaster) on ceramic floor & wall tiles is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #13 : Women's Washroom, Phase: A **Floor: Main-South** **Room #:** **Area (sqft): 40**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		40			SF	V0004	None Detected	N.D.	None
Duct	Supply Air	Not Insulated	No Information	NI											
Floor	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Ceramic Tiles	No Information	NI											

Adhesive/Grout (masonry mortar/cement/plaster) on ceramic floor & wall tiles is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #14 : Foyer, Phase: A **Floor: Main-South** **Room #:** **Area (sqft): 60**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		60			SF	V0004	None Detected	N.D.	None
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information												
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Plaster	Surface	Paint	A	Y		50			%	V0007	None Detected	N.D.	None
Wall		Masonry	No Information	NI											

Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #15 : Lunchroom, Phase: A **Floor: Main-South** **Room #:** **Area (sqft): 1140**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Drywall and joint compound						100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Ceiling		Ceiling Tiles (lay-in)		N/A	C	Y		1140			SF	V0004	None Detected	N.D.	None
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y					SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	N		2			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Rain Water Leader	Sweat Wrap pipe insulation	Straight	Canvas	C	N		8			LF	V0003	None Detected	N.D.	None
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Drywall (no compound)			A			100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall		Masonry	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #16 : Fan Room, Phase: A **Floor: Main-South** **Room #:** **Area (sqft): 800**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Exchanger	Fibreglass	Surface	Canvas	A	Y									
Mechanical Equipment	Exchanger	Fibreglass w/Parging	Surface	Canvas	A	Y		32			SF	S0005	Chrysotile	50-75%	Confirmed Asbestos(F)
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		15			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		15			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping one	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping two	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping three		Fibreglass	Straight	Canvas	C	Y									
Piping three		Parging over Fibreglass	Fitting	Canvas	C	Y		10			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping four		Fibreglass	Straight	Canvas	C	Y									
Piping four		Parging over Fibreglass	Fitting	Canvas	C	Y		17			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											
Wall		Masonry	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #17 : Hallway, Phase: A **Floor: Main-North** **Room #:** **Area (sqft): 400**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		400			SF	V0004	None Detected	N.D.	None
Duct	Return Air	Fibreglass	No Information	Foil Face											
Duct	Supply Air	Fibreglass	No Information	Foil Face											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		400			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #18 : Men's Locker Room, Phase: A **Floor: Main-North** **Room #:** **Area (sqft): 1500**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		1500			SF	V0004	None Detected	N.D.	None
Duct	All	Adhesive/mastic	Joint	NI	C	N		100			%	S0009	Chrysotile	1-5%	Confirmed Asbestos(NF)
Duct	Supply Air	Not Insulated	No Information	NI											
Floor	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Floor		Ceramic Tiles	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Fibreglass	Straight	Canvas	C	N									
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	N		8			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Ceramic Tiles	No Information	NI											

Mastic sealant on seams of galvanized ductwork contains Chrysotile Asbestos, Lab report b80899 Sample No. 0003 Project 68112 reflected as Sample 0009 in HMIS Adhesive/Grout (masonry mortar/cement/plaster) on ceramic floor & wall tiles is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #19 : Soils, Phase: A **Floor: Main-North** **Room #:** **Area (sqft): 160**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		160			SF	V0004	None Detected	N.D.	None
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		160			SF	S0008	None Detected	N.D.	None
Duct	Not Found	NI	No Information	NI											
Floor		Vinyl Sheet Flooring (No Mastic), installed after 1992 not present during original assessment	No Information					100			%	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

Addidional sample of AT, lab report b80899, Sample No. 0002 ND. Project 68112 reflected as Sample 0008 in HMIS Adhesive/Grout (masonry mortar/cement/plaster) on ceramic wall tiles is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #20 : Lab Service Room, Phase: A **Floor: Main-North** **Room #:** **Area (sqft): 0**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Return Air	Not Insulated	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Plaster	No Information	NI							%	S0007	[None]		[None]
Wall		Masonry	No Information	NI											

Plaster sampled on lab wall report b80899 Sample No. 0001 Project 68112 reflected as Sample 0007 in HMIS Adhesive/Grout (masonry mortar/cement/plaster) on ceramic wall tiles is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #21 : Surge Well Room, Phase: A **Floor: Main-North** **Room #:** **Area (sqft): 600**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Sanitary Drain	Cement Product	System	N/A	C			17			LF	V9000	Confirmed Asbestos		Confirmed Asbestos(NF)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #22 : R.O.-D.I. Water Room (Old Vent Equipment Room), Phase: A **Floor: Main-North** **Room #:** **Area (sqft): 300**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		300			SF	V0004	None Detected	N.D.	None
Duct	All	Fibreglass	No Information	Foil Face											
Floor		Concrete (poured)													
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		300			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	All	Fibreglass	No Information	Foil Face								0000	Non-Asbestos		None
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)													
Wall		Drywall (no compound)			A			100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Masonry	No Information	NI											

Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**

Location: #23 : Water Quality Laboratory, Phase: A **Floor: Main-North** **Room #:** **Area (sqft): 800**

Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		800			SF	V0004	None Detected	N.D.	None
Duct	Return Air	Fibreglass	No Information	Foil Face											
Duct	Supply Air	Fibreglass	No Information	Foil Face											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		800			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Fibreglass	Straight	Canvas	C	N									
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	N		4			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Drywall (no compound)			A			100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Ceramic Tiles	No Information	NI											

Adhesive/Grout (masonry mortar/cement/plaster) on ceramic wall tiles is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #24 : Metal Analysis Room, Phase: A **Floor: Main-North** **Room #:** **Area (sqft): 250**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		250			SF	V0004	None Detected	N.D.	None
Duct	Return Air	Fibreglass	No Information	Foil Face											
Duct	Supply Air	Fibreglass	No Information	Foil Face											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		250			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Ceramic Tiles, setting compound	No Information					100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	All	Drywall (no compound)	Surface	Paint	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #25 : Storage Room, Phase: A **Floor: Main-North** **Room #:** **Area (sqft): 220**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Drywall and joint compound	Surface		C	Y		220			SF	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Duct	Return Air	Fibreglass	No Information	Foil Face											
Duct	Supply Air	Fibreglass	No Information	Foil Face											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		220			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Preformed Block	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall	All	Drywall (no compound)	Surface	Paint	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall		Ceramic Tiles	No Information	NI											

Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #26 : Balance Room, Phase: A **Floor: Main-North** **Room #:** **Area (sqft): 300**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		300			SF	V0004	None Detected	N.D.	None
Duct	Return Air	Fibreglass	No Information	Foil Face											
Duct	Supply Air	Fibreglass	No Information	Foil Face											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		300			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Drywall (no compound)	Surface	Paint	A	Y		990	10		%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall		Ceramic Tiles	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #27 : Gas Chromatography, Phase: A **Floor: Main-North** **Room #:** **Area (sqft): 220**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		220			SF	V0004	None Detected	N.D.	None
Duct	Return Air	Fibreglass	No Information	Foil Face											
Duct	Supply Air	Fibreglass	No Information	Foil Face											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		220			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Drywall (no compound)	Surface	Paint	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall		Ceramic Tiles	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #28 : Wastewater Laboratory, Phase: A **Floor: Main-North** **Room #:** **Area (sqft): 2100**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		2100			SF	V0004	None Detected	N.D.	None
Duct	Return Air	Fibreglass	No Information	Foil Face											
Duct	Supply Air	Fibreglass	No Information	Foil Face											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		2100			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Fibreglass	Straight	Canvas	C	N									
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	N		4			EA	V0001	None Detected	N.D.	None
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall	All	Drywall (no compound)	Surface	Ceramic Tiles	A	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall		Ceramic Tiles	No Information	NI											

Adhesive/Grout (masonry mortar/cement/plaster) on ceramic wall tiles is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #29 : Nutrient Analysis Room, Phase: A **Floor: Main-North** **Room #:** **Area (sqft): 220**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		400			SF	V0004	None Detected	N.D.	None
Duct	Return Air	Fibreglass	No Information	Foil Face											
Duct	Supply Air	Fibreglass	No Information	Foil Face											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		400			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Drywall (no compound)	Surface	Paint	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall		Ceramic Tiles	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #30 : Carbon Analysis Room, Phase: A **Floor: Main-North** **Room #:** **Area (sqft): 400**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		220			SF	V0004	None Detected	N.D.	None
Duct	Return Air	Fibreglass	No Information	Foil Face											
Duct	Supply Air	Fibreglass	No Information	Foil Face											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		220			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Drywall (no compound)	Surface	Paint	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall		Ceramic Tiles	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #31 : Hallway, Phase: A **Floor: Main-North** **Room #:** **Area (sqft): 350**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		350			SF	V0004	None Detected	N.D.	None
Duct	Return Air	Fibreglass	No Information	Foil Face											
Duct	Supply Air	Fibreglass	No Information	Foil Face											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		350			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall	All	Drywall (no compound)	Surface	Paint	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall		Ceramic Tiles													
Wall[1]		Mortar						100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

1 - Ceramic Tile Setting Compound

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #32 : Gallery 2, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 750**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		3			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping one	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping one	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		6			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping two	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #33 : South Basement, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 5000**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		20			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping one	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping one	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		6			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping two	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #34 : Central Basement, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 10000**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											[None]
Mechanical Equipment	Fan Unit	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		39	1		EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping one	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping one	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		1			EA	S0001	None Detected	N.D.	None
Piping one	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		144			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping two	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping three	Sanitary Drain	Cement Product	System	N/A	B	Y		40			LF	V9000	Confirmed Asbestos		Confirmed Asbestos(NF)
Piping four	Domestic Water (Hot and Cold)	Fibreglass	Straight	Canvas	C	Y									
Piping four	Domestic Water (Hot and Cold)	Parging over Fibreglass	Fitting	Canvas	C	Y		3			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #35 : Under Fan Room, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 1000**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Exchanger	Not Insulated	No Information	NI											[None]
Other	Not Found	NI	No Information	NI											
Piping one	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping one	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		34			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping two	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping two	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		79			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #36 : Old Sewage Pit/Tank, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 2000**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor	Debris	Abated Material	No Information	N/A	B	Y					SF	S0010	[None]	25-50%	[Abated]
Floor		Dirt	No Information	NI							%	V0000	Non-Asbestos		None
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Parging debris on dirt. Lab report b80899, Sample No 0004. Project 68112 reflected as Sample 0010 in HMIS

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #37 : North Basement/Laundry, Phase: A **Floor: Basement** **Room #:** **Area (sqft): 10000**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Exchanger	Abated Material	Surface	Canvas	A	Y					SF	V0005	[None]	50-75%	[Abated]
Mechanical Equipment	Heating Water Tank	Not Insulated	No Information	NI											
Mechanical Equipment	Heating Water Tank	Not Insulated	No Information	NI											
Mechanical Equipment	Heating Water Tank	Not Insulated	No Information	NI											
Mechanical Equipment	Heating Water Tank	Not Insulated	No Information	NI											
Mechanical Equipment	Heating Water Tank	Not Insulated	No Information	NI											
Other	Electrical Panel	NI	No Information	NI											
Piping one	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping one	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		36			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping two	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping two	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		34			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping three		Fibreglass	Straight	Canvas	C	Y									
Piping three		Parging over Fibreglass	Fitting	Canvas	C	Y		6			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping four		Fibreglass	Straight	Canvas	C	Y									
Piping four		Parging over Fibreglass	Fitting	Canvas	C	Y		15			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											
Wall		Masonry	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #38 : Mezzanine, Phase: A **Floor: Second** **Room #:** **Area (sqft): 375**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Plaster	Surface	Paint	C	Y		194		6	SF	V0011	None Detected	N.D.	None
Duct	Supply Air	Not Insulated	No Information	NI											
Floor	All	Terrazzo	Surface	N/A	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Debris	Plaster	Surface	N/A	C	N				10	SF	S0011	None Detected	N.D.	None
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Not Accessible	NI	No Information	NI											
Wall		Plaster	Surface	Paint	A	Y		100		2	%	V0007	None Detected	N.D.	None

Approximately 8 sq ft of plaster wall in poor condition and 10 sq ft of plaster debris found on top of ceiling tiles

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #39 : Hallway, Phase: A **Floor: Second** **Room #:** **Area (sqft): 100**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Plaster	Surface	Paint	C	Y		100			%	V0018	None Detected	N.D.	None
Duct	Supply Air	Fibreglass w/Parging	Surface	Canvas	C	Y		14			SF	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Floor		Vinyl Floor Tile and Mastic	Surface		A	Y		100			SF	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Not Accessible	NI	No Information	NI											
Wall		Plaster	Surface	Paint	A	Y		100			%	V0007	None Detected	N.D.	None

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #40 : Washroom North, Phase: A **Floor: Second** **Room #:** **Area (sqft): 60**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Wood	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Floor		Ceramic Tiles	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Sweat Wrap pipe insulation	Straight	Canvas	B	Y		8			LF	V0003	None Detected	N.D.	None
Structure	Not Accessible	NI	No Information	NI											
Wall	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Ceramic Tiles	No Information	NI											

Adhesive/Grout (masonry mortar/cement/plaster) on ceramic floor and wall tiles is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #41 : Office, Phase: A **Floor: Second** **Room #:** **Area (sqft): 150**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		150			SF	V0004	None Detected	N.D.	None
Ceiling		Plaster	Surface	Paint	C	N		100			%	V0018	None Detected	N.D.	None
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	Carpet											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Not Accessible	NI	No Information	NI											
Wall		Plaster	Surface	Paint	A	Y		100			%	V0007	None Detected	N.D.	None

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #42 : Second Floor Venting Room, Phase: A **Floor: Second** **Room #:** **Area (sqft): 150**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		150			SF	S0004	None Detected	N.D.	None
Ceiling		Plaster	Surface	Paint	C	N		97	3		%	V0018	None Detected	N.D.	None
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Vinyl Floor Tile and Mastic	Surface	N/A	A	Y		150			SF	V000	Non-Asbestos		
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Debris	Plaster	Surface	N/A	C	N				6	SF	V0007	None Detected	N.D.	None
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Not Accessible	NI	No Information	NI											
Wall		Plaster	Surface	Paint	A	Y		100			%	V0007	None Detected	N.D.	None

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #43 : Discharge Well, Phase: A **Floor: Second** **Room #:** **Area (sqft): 2500**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping one	Sanitary Drain	Cement Product	System	N/A	D	Y		100			LF	V9000	Confirmed Asbestos		Confirmed Asbestos(NF)
Piping two	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	Y		1			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping two	Rain Water Leader	Sweat Wrap pipe insulation	Straight	Canvas	C	Y		10			LF	V0003	None Detected	N.D.	None
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Area is not accessible during time of inspection last August 14, 2015 and Aug 25, 2016 due to lock out/tag out on the access door.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #44 : Office, Phase: A **Floor: Second** **Room #:** **Area (sqft): 150**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tile (mechanically fastened)	Surface	Paint	C	Y		100			%	V0000	Non-Asbestos		None
Ceiling		Plaster	Surface	Ceiling Tile (mechanically fastened)	C	N		100			%	V0018	None Detected	N.D.	None
Ceiling		Metal	No Information	NI											
Duct	Return Air	Not Insulated	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	Carpet											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	C	N		2			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Rain Water Leader	Sweat Wrap pipe insulation	Straight	Canvas	C	N		8			LF	V0003	None Detected	N.D.	None
Structure	Not Accessible	NI	No Information	NI											
Wall		Plaster	Surface	Paint	A	Y		100			%	V0007	None Detected	N.D.	None

No access on ceiling space

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #45 : Sludge Manager Office, Phase: A **Floor: Second** **Room #:** **Area (sqft): 270**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tile (mechanically fastened)	Surface	Paint	C	Y		100			%	V0000	Non-Asbestos		None
Ceiling		Plaster	Surface	Ceiling Tile (mechanically fastened)	C	N		100			%	V0018	None Detected	N.D.	None
Ceiling		Metal	No Information	NI											
Duct	Return Air	Not Insulated	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	Carpet											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Not Accessible	NI	No Information	NI											
Wall		Plaster	Surface	Paint	A	Y		100			%	V0007	None Detected	N.D.	None

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #46 : Washroom South, Phase: A **Floor: Second** **Room #:** **Area (sqft): 60**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Plaster	Surface	Paint	C	Y		100			%	V0018	None Detected	N.D.	None
Duct	Not Found	NI	No Information	NI											
Floor	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Floor		Ceramic Tiles	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	B	Y		5			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping	Rain Water Leader	Sweat Wrap pipe insulation	Straight	Canvas	B	Y		8			LF	S0003	None Detected	N.D.	None
Structure	Not Accessible	NI	No Information	NI											
Wall	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)
Wall		Ceramic Tiles	No Information	NI											

Adhesive/Grout (masonry mortar/cement/plaster) on ceramic floor and wall tiles is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #47 : Head Tank, Phase: A **Floor: Third** **Room #:** **Area (sqft): 400**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											[None]
Mechanical Equipment	Tank	Parging over Fibreglass	Surface	Canvas	C	Y		1200			SF	V0006	Chrysotile	50-75%	Confirmed Asbestos(F)
Other	Not Found	NI	No Information	NI											
Piping one	Heating Water Supply	Fibreglass	Straight	Canvas	C	Y									
Piping one	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		2			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping two	Heating Water Return	Fibreglass	Straight	Canvas	C	Y									
Piping two	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		29			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Piping three	Rain Water Leader	Fibreglass	Straight	Canvas	B	Y									
Piping three	Rain Water Leader	Parging over Fibreglass	Fitting	Canvas	B	Y		2			EA	V9500	Presumed Asbestos		Presumed Asbestos(F)
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Approximately 15 SF of Tank insulation in FAIR condition had been repaired. Advice COWWWD not to lean anything against the tank.

Client: City of Winnipeg Water and Waste Dept **Site: North End Water Pollution Control Centre** **Building Name: 1 : Administration**
Location: #48 : Exterior Wall, Phase: A **Floor: Main** **Room #: Exterior** **Area (sqft): 0**
Survey Date: 2006-04-19 **Last Re-Assessment: 2021-06-23**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Wall	Exterior	Concrete (precast)	Surface	N/A	A	Y		100			%	V0000	Non-Asbestos		None
Wall	Exterior	Clay Tile (block)	Surface	N/A	A	Y		100			%	V0000	Non-Asbestos		None
Wall	Exterior	Plaster	Surface	N/A	A	Y		3100			SF	S0013	None Detected	N.D.	None
Wall	Exterior	Mortar	Surface	Clay Tile (block)	A	Y		100			%	V9500	[Presumed Asbestos]		[Presumed Asbestos](NF)

Roof needs to be tested prior to any renovation or demolition activities. Adhesive/Grout (masonry mortar/cement/plaster) on brick walls is presumed asbestos containing.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

FINAL

Asbestos Reassessment

Lakeview Residence, Intake Residence, Staff House Building, Storage Shed, Foremen's Residence
Shoal Lake Intake Facility
Shoal Lake, Manitoba

Prepared for:

City of Winnipeg
Water and Waste Department
110-1199 Pacific Avenue
Winnipeg, Manitoba R3E 3S8

October 14, 2021

Pinchin File: 289439

Issued to:	**City of Winnipeg Water and Waste Department**
Issued on:	**October 14, 2021**
Pinchin File:	**289439**
Issuing Office:	**Winnipeg, MB**

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Technical Manager and Regional Practice Leader
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EXECUTIVE SUMMARY

City of Winnipeg Water and Waste Department (Client) retained Pinchin Ltd. (Pinchin) to conduct an asbestos building materials reassessment of Shoal Lake Intake Facility located in Shoal Lake, Manitoba. The reassessment was performed on June 30, 2021.

The objective of the reassessment was to evaluate the condition and quantity of previously reported asbestos-containing materials (ACM), and develop corrective action plans as required for the purposes of long-term management. The results of this assessment are not intended for construction, renovation, demolition or project tendering purposes.

SUMMARY OF FINDINGS

Asbestos-containing materials (ACM) are present as follows:

- Drywall wall and ceiling finishes present within the Staff House and Intake Residence have not been sampled. The drywall joint compound present is presumed to contain asbestos, is potentially friable and is in GOOD condition;
- Transite board presumed to contain asbestos is present on the exterior walls of the Staff House and Storage Shed. Transite board is non-friable and is in GOOD condition; and
- Mortar present on masonry walls within the Staff House is presumed to contain asbestos. The mortar is non-friable and is in GOOD condition; and

SUMMARY OF RECOMMENDATIONS

The following is a summary of significant recommendations; refer to the body of the report for detailed recommendations.

1. Perform a reassessment of asbestos materials on an annual basis;
2. Prior to renovations or demolition, perform a pre-construction assessment to identify any hazardous materials that may be disturbed by the work; and
3. Follow appropriate safe work procedures when handling or disturbing asbestos.

This Executive Summary is subject to the same standard limitations as contained in the report and must be read in conjunction with the entire report.

TABLE OF CONTENTS

APPENDICES

1.0 INTRODUCTION AND SCOPE

City of Winnipeg Water and Waste Department (Client) retained Pinchin Ltd. (Pinchin) to conduct an asbestos building materials reassessment at Shoal Lake, Manitoba.

Pinchin performed the reassessment on June 30, 2021. The surveyor was accompanied by City of Winnipeg Water and Waste Representatives during the reassessment. The assessed area was occupied at the time of the assessment.

The objectives of the reassessment were to document the locations, quantities and conditions of previously identified asbestos containing building materials and develop corrective action plans as required. This reassessment is only to be used for the purposes of long-term management and routine maintenance. The results of this reassessment are not to be used for construction, renovation, demolition or project tendering purposes.

1.1 Scope of Assessment

The objective of the reassessment was to evaluate the condition and quantity of previously reported asbestos-containing materials (ACM), and develop corrective action plans as required. Facilities that have ACMs that were inspected included the following:

- Staff House Building;
- Storage Shed;
- Lakeview Residence;
- Intake Residence; and
- Foreman’s Residence.

Additional objectives included the following:

- Documentation of any asbestos abatement that was performed since the last reassessment; and
- Additional sampling to delineate previously identified ACM.

Please refer to Appendix II for a detailed description of the methodology used for this assessment.

2.0 METHODOLOGY

Pinchin conducted an inspection of previously identified asbestos-containing materials (ACM) to evaluate the current condition of all accessible identified in the most recent assessment. The surveyor made reference to any existing assessment or abatement reports (as provided by the Client).

As per the original scope of work, concealed locations such as ceiling spaces above solid ceilings, shafts and chases were accessed via existing access panels. Our investigation did not include demolition of drywall or plaster walls to view concealed conditions. Structural items or exterior building finishes were not removed to determine the presence of concealed materials.

For further details on the methodology including test methods, refer to Appendix II.

3.0 BACKGROUND INFORMATION

3.1 Existing Reports and Summary of Asbestos Abatement

3.1.1 Review of Previous Reports

The reassessment was based on information gathered from the previous comprehensive assessment report completed by Pinchin. The original assessment report for the Shoal Lake Intake Facility was dated July 23, 2008. The results of the original report and subsequent survey update reports were reviewed prior to this assessment.

3.1.2 Summary of Asbestos Abatement since the Previous Assessment

Abatement work has been completed on site since the last assessment. Based on a review of the above noted abatement reports, and observations made during the reassessment, the following abatement work has been conducted, since completion of the previous report:

- Approximately 4,500 SF of transite cement finishes presumed to contain asbestos were removed from exterior walls of the Staff House, 300 SF remains present within the Screened Porch.

4.0 FINDINGS

The following section summarizes the findings of the reassessment and provides a general description of the asbestos-containing materials (ACM) identified and their locations.

For details on approximate quantities, condition, friability and locations of asbestos materials; refer to the Asbestos Material Summary Report and HMIS Data Report in Appendix IV and V.

Additional bulk samples were collected to rule out the presence of asbestos within Drywall Joint compound, Ceramic tile setting compound, and stucco within the Foremen's Residence and Lakeview Residence. Asbestos was not detected. Appendix I presents the asbestos bulk sample analytical results.

4.1 Plaster and Stucco

Exterior plaster present on the Lakeview Residence was determined to be non-asbestos by analysis of Samples 0001A-C. Exterior Plaster present on the exterior of the Foremen's Residence was installed during 2020 renovations therefore is not suspect to contain asbestos. Exterior plaster present on the Intake residence has not been sampled therefore must be presumed to contain asbestos. Plaster is potentially friable and is in good condition.

4.2 Drywall Joint Compound

Drywall (gypsum board) and drywall joint compound is present as wall and ceiling finishes throughout the Staff House, Foreman's Residence, Lakeview Residence, and Intake (Operator) Residence buildings. Bulk samples collected from the Lakeview and Foremen's Residence determined the drywall does not contain asbestos (Samples 0002A-G, 0003A-C, and 0004A-C).

Drywall joint compound present within the Staff House and Intake Residence has not been sampled therefore must be presumed to contain asbestos. Drywall joint compound is non-friable while in place but can become friable during removal. All drywall joint compound is painted and in GOOD condition.

4.3 Asbestos Cement Products (Transite)

Transite board, presumed to contain asbestos based on visual observation, is present as exterior finish on the Storage Shed and Staff House Porch. Transite cement is non-friable and is in GOOD condition.

4.4 Roofing Products

Roofing materials have not been sampled therefore must be considered suspect to contain asbestos.

4.5 Other Building Materials

Mortar present on masonry walls within the Staff House is presumed to contain asbestos. The mortar is non-friable and is in GOOD condition.

Ceramic tile setting compound present within the Forman's Residence was determined to be non-asbestos by analysis of Samples 0004A-C.

4.6 Excluded Asbestos Materials

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

- Roofing felts and tar, mastics;
- Floor levelling compound;

- Electrical components;
- Mechanical packing, ropes and gaskets;
- Vermiculite;
- Adhesives and duct mastics;
- Caulking and putties;
- Fibre-reinforced paints and coatings;
- Paper products;
- Soffit and fascia boards;
- Fire resistant doors;
- Metal clad finishes (Galbestos);
- Stucco, plaster or other cementitious parge coatings;
- Vibration dampers on HVAC equipment;
- Ropes and gaskets in cast-iron bell and spigot joints; and
- Sealants on pipe threads.

5.0 RECOMMENDATIONS

5.1 General

Perform a detailed intrusive assessment prior to building renovation or demolition operations. The assessment should include; destructive testing (e.g. coring and/or removal of building finishes and components), sampling of other hazardous materials (lead, mercury, PCBs, mould, etc.), and materials not tested in this study (e.g. roofing materials, caulking, mastics).

5.2 On-going Management and Maintenance

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

Perform a reassessment of asbestos materials on an annual basis.

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

Update the asbestos inventory report for the building upon completion of any abatement of ACM.

6.0 TERMS AND LIMITATIONS

This work was performed subject to the Terms and Limitations presented or referenced in the proposal for this project.

Information provided by Pinchin is intended for Client use only. Pinchin will not provide results or information to any party unless disclosure by Pinchin is required by law. Any use by a third party of reports or documents authored by Pinchin or any reliance by a third party on or decisions made by a third party based on the findings described in said documents, is the sole responsibility of such third parties. Pinchin accepts no responsibility for damages suffered by any third party as a result of decisions made or actions conducted. No other warranties are implied or expressed.

7.0 REFERENCES

The following legislation and documents were referenced in completing the assessment and this report:

1. Workplace Safety and Health Act W210.
2. Workplace Safety and Health Hazard Regulation (Manitoba Regulation 217/2006), under the Workplace Safety and Health Act.
3. Manitoba Regulation MR 474/88, Manitoba PCB Regulation made under The Dangerous Goods Act.
4. Guide for Asbestos Management – Safe Work Manitoba.
5. Guideline Managing Demolition Debris Containing Hazardous Materials – Environmental Enforcement and Compliance Branch – Manitoba Conservation and Climate
6. Consolidated Transportation of Dangerous Goods Regulations, including Amendment SOR/2019-101, Transportation of Dangerous Goods Act.

APPENDIX I

Asbestos Analytical Certificates

Your Project #: 289439
Site Location: LIFT STATIONS
Your C.O.C. #: N/A

Attention: Ken Brydges

Pinchin Ltd
54 Terracon Pl
Winnipeg, MB
CANADA R2J 4G7

Report Date: 2021/08/04
Report #: R6749933
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: C1J5219
Received: 2021/07/14, 09:44

Sample Matrix: Solid
Samples Received: 16

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Asbestos by PLM - 0.5 RDL (1)	4	N/A	2021/07/20	COR3SOP-00002	EPA 600R-93/116
Asbestos by PLM - 0.5 RDL (1)	12	N/A	N/A	COR3SOP-00002	EPA 600R-93/116

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Bureau Veritas Laboratories' Asbestos Laboratory is accredited by NVLAP for bulk asbestos analysis by polarized light microscopy, NVLAP Code 600136-0.

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Bureau Veritas Laboratories' scope of accreditation includes EPA-600/M4-82-020: "Interim Method for the Determination of Asbestos in Bulk Insulation Samples" and EPA-600/R-93/116: "Method for the Determination of Asbestos in Bulk Building Materials".

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

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

(1) P.O.B. - Percent of Bulk

Your Project #: 289439
Site Location: LIFT STATIONS
Your C.O.C. #: N/A

Attention: Ken Brydges

Pinchin Ltd
54 Terracon Pl
Winnipeg, MB
CANADA R2J 4G7

Report Date: 2021/08/04
Report #: R6749933
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: C1J5219
Received: 2021/07/14, 09:44

When Asbestos data is reported with other data, this report contains data that are not covered by the NVLAP accreditation.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Antonella Brasil, Senior Project Manager
Email: Antonella.Brasil@bureauveritas.com
Phone# (905)817-5817

==========

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Bureau Veritas Laboratories 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

BV Labs Job #: C1J5219
Report Date: 2021/08/04

Pinchin Ltd
Client Project #: 289439
Site Location: LIFT STATIONS
Sampler Initials: KB

Asbestos Analytical Results

EPA/600R-93/116 by Polarized Light Microscopy

0001 A LAKEVIEW-EXTERIOR STUCCO

BV Labs ID: QCB208 Date Analyzed: 2021/07/16

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous grey cementitious material	Not Detected		Non-Fibrous

0001 B LAKEVIEW-EXTERIOR STUCCO

BV Labs ID: QCB209 Date Analyzed: 2021/07/16

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous grey cementitious material	Not Detected		Non-Fibrous

0001 C LAKEVIEW-EXTERIOR STUCCO

BV Labs ID: QCB210 Date Analyzed: 2021/07/16

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous grey cementitious material	Not Detected		Non-Fibrous

0002 A LAKEVIEW-DRYWALLL JOINT COMPOUND-KITCHEN CLOSET

BV Labs ID: QCB211 Date Analyzed: 2021/07/19

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous white drywall joint compound	Not Detected		Non-Fibrous

The limit of quantitation is 0.50%, although asbestos may be qualitatively detected at concentrations less than 0.50%. Samples for which asbestos is detected at <0.50% are reported as trace, "<0.50%". "Not Detected" indicates that no asbestos fibres were observed.

Calibrated Visual Estimate (%)
Date Format : yyyy/mm/dd

BV Labs Job #: C1J5219
Report Date: 2021/08/04

Pinchin Ltd
Client Project #: 289439
Site Location: LIFT STATIONS
Sampler Initials: KB

Asbestos Analytical Results

EPA/600R-93/116 by Polarized Light Microscopy

0002 B LAKEVIEW-DRYWALLL JOINT COMPOUND-INTERIOR WINDOW

BV Labs ID: QCB212 Date Analyzed: 2021/07/19

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous white drywall joint compound	Not Detected		Non-Fibrous

0002 C LAKEVIEW-DRYWALLL JOINT COMPOUND-INTERIOR WINDOW

BV Labs ID: QCB213 Date Analyzed: 2021/07/19

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous white drywall joint compound	Not Detected		Non-Fibrous

0002 D LAKEVIEW-DRYWALLL JOINT COMPOUND-KITCHEN CLOSET

BV Labs ID: QCB214 Date Analyzed: 2021/07/19

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous white drywall joint compound	Not Detected		Non-Fibrous

0002 E LAKEVIEW-DRYWALLL JOINT COMPOUND-CEILING-KITCHEN CLOSET

BV Labs ID: QCB215 Date Analyzed: 2021/07/19

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous white drywall joint compound	Not Detected		Non-Fibrous

The limit of quantitation is 0.50%, although asbestos may be qualitatively detected at concentrations less than 0.50%. Samples for which asbestos is detected at <0.50% are reported as trace, "<0.50%". "Not Detected" indicates that no asbestos fibres were observed.

Calibrated Visual Estimate (%)
Date Format : yyyy/mm/dd

BV Labs Job #: C1J5219
Report Date: 2021/08/04

Pinchin Ltd
Client Project #: 289439
Site Location: LIFT STATIONS
Sampler Initials: KB

Asbestos Analytical Results

EPA/600R-93/116 by Polarized Light Microscopy

0002 F LAKEVIEW-DRYWALLL JOINT COMPOUND-WALL CORRIDOR

BV Labs ID: QCB216 Date Analyzed: 2021/07/19

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous white drywall joint compound	Not Detected		Non-Fibrous

0002 G LAKEVIEW-DRYWALL JOINT COMPOUND-WALL CORRIDOR

BV Labs ID: QCB217 Date Analyzed: 2021/07/19

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous white drywall joint compound	Not Detected		Non-Fibrous

0003 A FOREMEN'S RESIDENTS-DRYWALL JOINT COMPOUND-CEILING LIVING ROOM

BV Labs ID: QCB218 Date Analyzed: 2021/07/19

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous white drywall joint compound	Not Detected		Non-Fibrous

0003 B FOREMEN'S RESIDENTS-DRYWALL JOINT COMPOUND-CEILING LIVING ROOM

BV Labs ID: QCB219 Date Analyzed: 2021/07/19

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous white drywall joint compound	Not Detected		Non-Fibrous

The limit of quantitation is 0.50%, although asbestos may be qualitatively detected at concentrations less than 0.50%. Samples for which asbestos is detected at <0.50% are reported as trace, "<0.50%". "Not Detected" indicates that no asbestos fibres were observed.

Calibrated Visual Estimate (%)
Date Format : yyyy/mm/dd

BV Labs Job #: C1J5219
Report Date: 2021/08/04

Pinchin Ltd
Client Project #: 289439
Site Location: LIFT STATIONS
Sampler Initials: KB

Asbestos Analytical Results

EPA/600R-93/116 by Polarized Light Microscopy

0003 C FOREMEN'S RESIDENTS-DRYWALL JOINT COMPOUND-CEILING LIVING ROOM

BV Labs ID: QCB220 Date Analyzed: 2021/07/19

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous white drywall joint compound	Not Detected		Non-Fibrous

0004 A FOREMEN'S RESIDENTS-SETTING COMPOUND AND DRYWALL JOINT COMPOUND-WALL KITCHEN

BV Labs ID: QCB221 Date Analyzed: 2021/07/19

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	95	Homogeneous white drywall joint compound	Not Detected		Non-Fibrous
Layer 2	5	Homogeneous yellow adhesive	Not Detected		Non-Fibrous

0004 B FOREMEN'S RESIDENTS-SETTING COMPOUND AND DRYWALL JOINT COMPOUND-WALL KITCHEN

BV Labs ID: QCB222 Date Analyzed: 2021/07/19

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	95	Homogeneous white drywall joint compound	Not Detected		Non-Fibrous
Layer 2	5	Homogeneous yellow adhesive	Not Detected		Non-Fibrous

The limit of quantitation is 0.50%, although asbestos may be qualitatively detected at concentrations less than 0.50%. Samples for which asbestos is detected at <0.50% are reported as trace, “<0.50%”. “Not Detected” indicates that no asbestos fibres were observed.

Calibrated Visual Estimate (%)
Date Format : yyyy/mm/dd

BV Labs Job #: C1J5219
Report Date: 2021/08/04

Pinchin Ltd
Client Project #: 289439
Site Location: LIFT STATIONS
Sampler Initials: KB

Asbestos Analytical Results

EPA/600R-93/116 by Polarized Light Microscopy

0004 C FOREMEN'S RESIDENTS-SETTING COMPOUND AND DRYWALL JOINT COMPOUND-WALL KITCHEN

BV Labs ID: QCB223 Date Analyzed: 2021/07/19

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	95	Homogeneous white drywall joint compound	Not Detected		Non-Fibrous
Layer 2	5	Homogeneous yellow adhesive	Not Detected		Non-Fibrous

The limit of quantitation is 0.50%, although asbestos may be qualitatively detected at concentrations less than 0.50%. Samples for which asbestos is detected at <0.50% are reported as trace, "<0.50%". "Not Detected" indicates that no asbestos fibres were observed.

Calibrated Visual Estimate (%)
Date Format : yyyy/mm/dd

BV Labs Job #: C1J5219
Report Date: 2021/08/04

Pinchin Ltd
Client Project #: 289439
Site Location: LIFT STATIONS
Sampler Initials: KB

GENERAL COMMENTS

Revised Report (2021/08/04): Added Adhesive asbestos data included for samples 0004A-C as per client request.

Results relate only to the items tested.

Bureau Veritas Laboratories 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

BV Labs Job #: C1J5219
Report Date: 2021/08/04

Pinchin Ltd
Client Project #: 289439
Site Location: LIFT STATIONS
Sampler Initials: KB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Jon Delos Santos, Laboratory Supervisor

Tanvee Kapur, Analyst 1

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APPENDIX II
Methodology

1.0 METHODOLOGY

Pinchin conducts an inspection of previously identified asbestos-containing materials (ACM) to evaluate the current condition of all accessible identified in the most recent assessment. The surveyor makes reference to any existing assessment or abatement reports (as provided by the Client).

1.1 Limitations on Scope

The re-assessment excludes the following:

- Articles belonging to the owner, tenant or occupant (e.g. stored items, furniture, appliances, etc.);
- Underground materials or equipment (e.g. vessels, drums, underground storage tanks, pipes, etc.);
- Building envelope, structural components, inaccessible or concealed materials or other items where sampling may cause consequential damage to the property.
- Energized systems (e.g. internal boiler components, elevators, mechanical or electrical components);
- Controlled products (e.g. stored chemicals, operational or process-related substances); and
- Materials not typically associated with construction (e.g. settled dust, spills, residual contamination from prior spills, etc.).

As per the original scope of work, concealed locations such as ceiling spaces above solid ceilings, shafts and chases are accessed via existing access panels. Our investigation does not include demolition of drywall or plaster walls to view concealed conditions. Structural items or exterior building finishes are not removed to determine the presence of concealed materials.

1.2 Methodology

Existing sampling data is reviewed and relied upon. If sampling is conducted, samples are collected at a rate that is in compliance with the requirements of local regulations and guidelines. The sampling strategy is also based on known ban dates and phase out dates of the use of asbestos; sampling of certain building materials is not conducted after specific construction dates. In addition, to be conservative, several years past these dates are added to account for some uncertainty in the exact start / finish date of construction and associated usage of ACM.

Materials listed as exclusions in the previous reports remain as exclusions. Sampling, assessment or verification of excluded materials was not conducted.

If present, the following materials are presumed to be asbestos-containing and are best sampled immediately prior to commencing renovation/disturbance:

- Roofing felts and tar, mastics;
- Floor levelling compound;
- Ceramic tile setting compound;
- Elevator and lift brakes;
- Electrical components or wiring within control centers, breakers, motors or lights, insulation on wiring;
- Moulded plastic components (laboratory bench tops);
- Refractory materials and insulations in boilers, incinerators and stacks;
- Insulation under metal clad boilers and vessels;
- Mechanical packing, ropes and gaskets;
- Vermiculite;
- Adhesives and duct mastics;
- Caulking and putties;
- Fibre-reinforced paints and coatings;
- Paper products;
- Soffit and fascia boards;
- Fire resistant doors;
- Metal clad finishes;
- Exterior cladding;
- Stucco, plaster or other cementitious parge coatings; and
- Vibration dampers on HVAC equipment.

2.0 ANALYSIS AND IDENTIFICATION OF ASBESTOS MATERIALS

Pinchin relies on the analytical results of prior surveys. Asbestos bulk samples (if required) are analyzed at an independent NVLAP accredited laboratory. Preliminary identification of asbestos fibres is made using polarized light microscopy, with confirmation of the presence and type of asbestos made by dispersion staining optical microscopy. The analysis is performed in accordance with Test Method EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials, June 1993. All independent laboratories used by Pinchin, including our laboratory, are certified under the National Voluntary Laboratory Accreditation Program (NVLAP) to perform asbestos analysis of bulk samples.

Analytical results are compared to the following criteria:

Jurisdiction	Friable	Non-Friable
Manitoba	0.1%[1]	1%
Federal	1%	1%

The asbestos analysis is completed using a stop positive approach. Only one result meeting the above regulated criteria is required to determine that a material is asbestos-containing, but all samples must be analyzed to conclusively determine that a material is non-asbestos. The laboratory stops analyzing samples from a homogeneous material once a result equal to or greater than the regulated criteria is detected in any of the samples of that material. All samples of a homogeneous material are analyzed if no asbestos is detected. In some cases, all samples are analyzed in the sample set regardless of result.

Where building materials are described in the report as “non-asbestos” or “does not contain asbestos”, this means that either no asbestos was detected by the analytical method utilized in any of the multiple samples or, if detected, it is below the lower limit of an asbestos-containing material in the applicable regulation.

Asbestos materials are evaluated in order to make recommendations regarding remedial work. The priority for remedial action is based on several factors:

- Friability (friable or non-friable);
- Condition (good, fair, poor, debris);
- Accessibility (ranking from accessible to all building users to inaccessible);
- Visibility (whether the material is obscured by other building components); and
- Efficiency of the work (for example, if damaged ACM is being removed in an area, it may be most practical to remove all ACM in the area even if it is in good condition).

For a complete description of the Evaluation Criteria and Basis of Recommendations, refer to Annex A.

Template: Methodology for Asbestos Re-Assessment, HAZ, January 10, 2020

METHODOLOGY ANNEX A EVALUATION CRITERIA

1.0 EVALUATION CRITERIA AND BASIS OF RECOMMENDATIONS

The detailed asbestos assessment provides information regarding the location, condition, accessibility and friability of the asbestos-containing materials (ACM). In order to make recommendations for compliance with current regulations, Pinchin developed the following criteria.

2.0 EVALUATION OF CONDITION

2.1 Friable Sprayed or Trowelled Fireproofing, Thermal Insulation and Texture Finishes (Surfacing Materials)

To evaluate the condition of ACM sprayed or trowelled on fireproofing, sprayed or trowelled thermal insulation (non-mechanical), or texture, decorative or acoustic finishes, the following criteria are applied:

Good	Surface of material shows no significant signs of damage, deterioration or delamination. Good condition includes unencapsulated or unpainted fireproofing or texture finishes, where no or limited delamination or damage is observed, or encapsulated fireproofing or texture finishes where the encapsulant or paint has been applied after the damage or fallout occurred.
Poor	A sprayed material that shows signs of significant damage or is significantly delaminating or deteriorating. This may be limited to surface delamination or some portion of the substrate may be exposed.

In Locations where damage exists in isolated areas, both good and poor condition may be applicable. The extent of each condition will be recorded. Fair condition is not utilized in the evaluation of ACM sprayed or trowelled fireproofing, sprayed or trowelled thermal insulation (non-mechanical), or texture, decorative or acoustic finishes.

The evaluation of the above products above ceilings may be limited by the number of observations and by building components such as ducts or full height walls that obstruct the above ceiling observations.

2.2 Friable Mechanical or Thermal System Insulation (TSI)

To evaluate the condition of mechanical insulation on vessels, boilers, breeching, ducts, pipes, fan units, equipment etc. the following criteria are applied:

Good	Insulation is completely covered in jacketing and exhibits no evidence of damage or deterioration. No insulation is exposed. Includes conditions where the jacketing has minor damage (i.e. scuffs or stains), but the jacketing is not penetrated.
Fair	Minor penetrating damage to jacketed insulation (cuts, tears, nicks, deterioration or delamination) or undamaged insulation that has never been jacketed. Insulation is exposed but not showing surface disintegration. The extent of missing insulation ranges from minor to none. Damage can be repaired.
Poor	Original insulation jacket is missing, damaged, deteriorated or delaminated. Insulation is exposed and significant areas have been dislodged. Damage cannot be readily repaired. Includes components where insulation may have been removed incompletely.

The evaluation of mechanical insulation may be limited by the number of observations made and building components such as ducts or full height walls that obstruct observations. It is often not possible to observe each foot of mechanical insulation from all angles.

2.3 Potentially Friable Materials and Miscellaneous Friable Materials

Potentially friable ACM are products that are basically non-friable while in place but have the potential to generate friable dust upon removal or if significantly disturbed without appropriate procedures. These products may become friable if damaged. Potentially friable materials include materials such as acoustic ceiling tiles and plaster. To evaluate the condition of potentially friable materials, the following criteria are applied:

Good	No significant damage or deterioration. Still serving its intended use as a building material or finish.
Fair	Showing signs of some cracking or breakage, but is not deteriorating (e.g. cracked plaster, broken but in place ceiling tile, missing tile or section of plaster etc.). The condition is such that it is still serving its intended use as a building material or finish but may require repair for mainly cosmetic purposes.
Poor	Significant deterioration or breaking apart of the material. Material has deteriorated to the point it is not serving its intended use as building material or finish. Material has deteriorated to a point it has become friable. Normally potentially friable ACM in Poor condition is not repairable and requires at least localized removal and replacement.

2.4 Non-Friable Materials

Non-friable ACM cover a wide range of products with a wide variation in their tendency to release dust or asbestos fibres to the air. Many of these materials, (particularly where the matrix is an unweathered bitumen, asphalt or tar material) do not release fibres except in very unusual circumstances or during significant disturbance (e.g. use of abrasive power tools). Others with a cementitious matrix (asbestos-cement products) can more readily release dust due to abrasion, demolition, weathering, etc. The potential for asbestos release from non-friable ACM is always lower than from friable ACM. To evaluate the condition of non-friable Materials, the following criteria are applied:

Good	No significant damage or deterioration. Still serving its intended use as a building material or finish.
Fair	Showing signs of some cracking or breakage but is not deteriorating (e.g. cracked vinyl floor tile, missing piece of tile or transite, etc.). The condition is such that it is still serving its intended use as a building material or finish but may require repair for mainly cosmetic purposes.
Poor	Significant deterioration or breaking apart of the material to the point at which it cannot be repaired, and it will require at least local removal. Material has deteriorated to the point it is not serving its intended use as building material or finish. Material may have deteriorated to a point where traffic or disturbance may cause it to become friable.

2.5 Evaluation of ACM Debris

The identification of the exact location or presence of debris on the top of ceiling tiles is limited by the number of observations made and the presence of building components such as ducts or full height walls that obstruct observations.

The presence of fallen or dislodged ACM is noted separately from the ACM source and is referred to as Debris. Debris may be friable if from a friable ACM source or a badly deteriorated non-friable ACM source. Debris may also be non-friable (such as fallen pieces of transite sheet or mastic fittings, or broken, dislodged floor tiles).

Debris	Debris may be friable or non-friable but is always identified as debris.

2.6 Evaluation of Presumed Asbestos-Containing Material (PACM)

Presumed asbestos-containing materials (PACM), are building materials that may contain asbestos but were not sampled or analyzed due to inaccessibility or the need to perform destructive testing to obtain a reasonable sample set. Evaluation of these materials is based on the assumption that these PACM are asbestos-containing.

A list of PACM is provided in the report and they are generally not included in the detailed room by room reports. Typically, they are excluded because they are inaccessible or present in very small quantities. If PACM are evaluated, Pinchin uses the criteria that correspond with the type (and friability) of the material listed above.

3.0 EVALUATION OF ACCESSIBILITY

The accessibility of building materials known or suspected of being ACM is rated according to the following criteria:

Access (A)	Common areas of the building within reach of all building users (approximately 8 '-9' from floor or standard ceiling height). Includes other areas where occupant activities may result in disturbance of material that is not normally within reach from floor level, but may be disturbed by common activities (e.g. gymnasiums, workshops, warehouses)
Access (B)	Areas of the building accessed primarily by Maintenance/Caretaking/Janitorial Staff and within reach without use of a ladder. Includes areas within reach in Boiler Rooms, Electrical Rooms, Janitors Closets, Elevator Rooms, Mechanical Rooms, etc. Includes materials within reach from fixed ladders or catwalks, mezzanines, and accessible pipe chases.
Access (C) and Visible	Areas of the building above 8' - 9' where use of a ladder or scaffold is required to reach the ACM. Only includes ACM that are visible to view without the removal or opening of other building components such as ceiling tiles or service access panels. Visible column on HMIS sheets will say YES.
Access (C) and not Visible	Areas of the building above 8' - 9' where use of a ladder or scaffold is required to reach the ACM. Includes ACM that are not visible to view and require the removal of a building component to see, such as ceilings tiles or access panels to view and access. Includes rarely entered crawl spaces, attic spaces, etc. Observations will be limited to the extent visible from the access points. Visible column on HMIS sheets will say NO.
Access (D)	Areas of the building behind inaccessible solid ceiling systems, walls or equipment etc. where demolition of the ceiling, wall or equipment etc. is required to reach the ACM. Material inaccessible due to height or location or is only accessed under unusual situations. Evaluation of condition and extent of ACM is limited or impossible, depending on the surveyor's ability to visually examine materials in Access D.

4.0 ACTION MATRIX AND DEFINITIONS

Pinchin's evaluation of the viability of a specific asbestos control option is based on the consideration of the friability, condition, accessibility and visibility of a material. The logic used is that damaged ACM located in an area frequently accessed by all building occupants is of a higher priority than damaged ACM located in an infrequently accessed service area. The action matrix considers the potential for fibre release (primarily from friable ACM) and the possible concerns from regulatory bodies and many building occupants to all damaged ACM (including non-friable).

In any building with asbestos, many current regulations require an Asbestos Management Program be implemented. Depending on the condition and the accessibility, more active measures such as repair or removal may be recommended. The following matrix provides guidance for recommended Actions in the absence of renovation or demolition. In the event of construction or maintenance activity which will disturb ACM more aggressive control or removal will be required.

4.1 Action Matrix

The following tables outline the action decisions based on the relationship of assessed factors. Table I applies to friable ACM. Table II applies to non-friable ACM.

Table I Decision Matrix for Friable ACM

	Condition			
Access	**Good**	**Fair**	**Poor**	**Debris**
(A)	Action 5[1]	Action 5[2]	Action 3	Action 1
(B)	Action 7	Action 6[3]	Action 3	Action 1
(C) Visible	Action 7	Action 6	Action 3	Action 2
(C) Not Visible	Action 7	Action 7	Action 4	Action 2
(D)	Action 7	Action 7	Action 7	Action 7

Table II Decision Matrix for Potentially Friable and Non-Friable ACM

	Condition			
Access	**Good**	**Fair**	**Poor**	**Debris**
(A)	Action 7	Action 7[4]	Action 3	Action 1
(B)	Action 7	Action 7	Action 3	Action 1
(C) Visible	Action 7	Action 7	Action 4	Action 2
(C) Not Visible	Action 7	Action 7	Action 4	Action 2
(D)	Action 7	Action 7	Action 7	Action 7

[1] If friable ACM in access (A)/Good condition is not proactively removed Action 7 (Manage) is recommended.
[2] If friable ACM in access (A)/Fair condition is not proactively removed repair is recommended.
[3] If friable ACM in access (B)/Fair condition is likely to be disturbed after repair proactive removal is recommended.
[4] Action 7 is recommended for all non-friable ACM in Fair condition however some clients may wish to repair or take some action primarily for cosmetic reasons

4.2 Action Definitions

The following are the definitions in the Action Matrix Table presented above:

Action Definitions	
Action 1	Clean-Up of ACM Debris Restrict access that is likely to cause a disturbance of the ACM Debris and clean up ACM Debris. Utilize appropriate asbestos precautions.
Action 2	Precautions for Access Which may Disturb ACM Debris Use appropriate means to isolate the debris or to limit entry to the area which may disturb the material. At locations where ACM Debris can remain in place in lieu of removal or clean-up (e.g. Debris on top of ceiling tiles or behind lockable door), Utilize appropriate asbestos precautions to enter the area if this will disturb debris. The precautions will be required until the ACM Debris has been cleaned up.
Action 3	ACM Removal Remove ACM. Utilize asbestos procedures appropriate to the scope of the removal work. Until it is removed, restrict access to the material so it is not disturbed.
Action 4	Precautions for Work Which may Disturb ACM in Poor Condition. Utilize appropriate asbestos precautions if ACM may be disturbed by work on or near ACM. This does not require restricting access to the area, only control of work which may contact or disturb the ACM. Removal is the only viable option if work will disturb ACM.
Action 5	Proactive ACM Removal Remove friable ACM where the presence of friable asbestos in Good condition is not desirable. If friable ACM in Fair condition is not removed, then Repair friable ACM.
Action 6	ACM Repair Repair friable ACM in Fair condition which is not likely to be damaged again or disturbed by normal use of the area or room. Pinchin recommends proactive removal if friable ACM is likely to be damaged or disturbed during normal use of the area or room
Action 7	Asbestos Management Program with Routine Surveillance Implement an Asbestos Management Program, including routine surveillance of ACM. Reassess materials regularly (typically once per year).

Master Template: Methodology Annex A to Appendix I Evaluation Criteria, HAZ, January 10, 2020

APPENDIX III

Location Summary Report

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

LOCATIONS LIST

PINCHIN
1.855.PINCHIN www.pinchin.com

Client:City of Winnipeg Water and Waste Dept
Site: , , MB
Building Name: Foremans Residence
Surveyor: JYC
Survey Date: 2008-04-14
Reassessment Surveyor: Lambert Cruz
Last Re-Assessment: 2019-07-05

Location No.	Name or Description	Area ft^2	Floor No.	Notes
1	Foreman's Residence	0	Main	Roof sections needs to be tested prior to any renovation or demolition activities.
2	Exterior	0		

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

LOCATIONS LIST

PINCHIN
1.855.PINCHIN www.pinchin.com

Client:City of Winnipeg Water and Waste Dept
Site: , , MB
Building Name: Intake (Operator) Residence
Surveyor: JYC
Survey Date: 2008-04-14
Reassessment Surveyor: Lambert Cruz
Last Re-Assessment: 2019-07-05

Location No.	Name or Description	Area ft^2	Floor No.	Notes
1	Intake Residence	0	Main	009 V0002 Sampled in Lakeview Residence
2	Basement	0	Basement	
3	Exterior	0		

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

LOCATIONS LIST

PINCHIN
1.855.PINCHIN www.pinchin.com

Client:City of Winnipeg Water and Waste Dept
Site: , , MB
Building Name: Lakeview Residence
Surveyor: JYC
Survey Date: 2008-04-14
Reassessment Surveyor: Lambert Cruz
Last Re-Assessment: 2019-07-05

Location No.	Name or Description	Area ft^2	Floor No.	Notes
1	Residence	0	Main	
2	Exterior	0		

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

LOCATIONS LIST

PINCHIN
1.855.PINCHIN www.pinchin.com

Client:City of Winnipeg Water and Waste Dept
Site: , , MB
Building Name: Staff House Building
Surveyor: JYC
Survey Date: 2008-04-14
Reassessment Surveyor: Lambert Cruz
Last Re-Assessment: 2019-07-05

Location No.	Name or Description	Area ft^2	Floor No.	Notes
1	Staff House	0	Main	
2	Exterior	0		Mortar on exterior masonry walls suspect to contain asbestos

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

LOCATIONS LIST

PINCHIN
1.855.PINCHIN www.pinchin.com

Client:City of Winnipeg Water and Waste Dept **Site: , , MB**
Building Name: Storage Shed
Surveyor: JYC **Survey Date: 2008-04-14**
Reassessment Surveyor: Lambert Cruz **Last Re-Assessment: 2019-07-05**

Location No.	Name or Description	Area ft^2	Floor No.	Notes
1	Storage Shed	0	Main	Roof sections needs to be tested prior to any renovation or demolition activities.

APPENDIX IV

Asbestos Material Summary Report / Sample Log

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

PINCHIN
1.855.PINCHIN www.pinchin.com

Client:City of Winnipeg Water and Waste Dept **Site: , , MB** **Building Name: Foremans Residence** **Surveyor: JYC** **Survey Date: 2008-04-14**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Phase	LF	SF	EA	%	Type	Positive
Asbestos	S0001	WALL | DRYWALL AND JOINT COMPOUND | DRYWALL JOINT COMPOUND TAKEN AT THE WALL CORRIDOR OF FOREMAN'S RESIDENCE, SHOAL LAKE FACILITY LAST JUNE 19 2017	1		0	1	0	0	None Detected	No
Asbestos	V0000	CEILING | DRYWALL AND JOINT COMPOUND | SAMPLED JUNE 2021 289439 NON-ASBESTOS	1		0	0	0	100	Non Asbestos	No
Asbestos	V0000	FLOOR | VINYL SHEET FLOORING |	1		0	0	0	100	Non Asbestos	No
Asbestos	V0000	WALL | DRYWALL AND JOINT COMPOUND | SAMPLED JUNE 2021 - NON-ASBESTOS	1		0	0	0	100	Non Asbestos	No
Asbestos	V0000	WALL | MORTAR | SAMPLED 2021 - 289439 NON-ASBESTOS	1		0	0	0	100	Non Asbestos	No
Asbestos	V0000	WALL | PLASTER	2		0	0	0	100	Non Asbestos	No

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

PINCHIN
1.855.PINCHIN www.pinchin.com

Client:City of Winnipeg Water and Waste Dept **Site: , , MB** **Building Name: Intake (Operator) Residence** **Surveyor: JYC** **Survey Date: 2008-04-14**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Phase	LF	SF	EA	%	Type	Positive
Asbestos	V9500	CEILING | DRYWALL AND JOINT COMPOUND |	1		0	0	0	100	Presumed Asbestos	Yes
Asbestos	V9500	WALL | DRYWALL AND JOINT COMPOUND |	1,2		0	0	0	67	Presumed Asbestos	Yes
Asbestos	V9500	WALL | PLASTER	3		0	0	0	25	Presumed Asbestos	Yes
Asbestos	V0000	FLOOR | VINYL SHEET FLOORING	1		0	0	0	100	Non Asbestos	No

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

PINCHIN
1.855.PINCHIN www.pinchin.com

Client:City of Winnipeg Water and Waste Dept **Site: , , MB** **Building Name: Lakeview Residence** **Surveyor: JYC** **Survey Date: 2008-04-14**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Phase	LF	SF	EA	%	Type	Positive
Asbestos	S0002	FLOOR | VINYL SHEET FLOORING | VINYL SHEET FLOORING, OLD STYLE, BATHROOM AND LAUNDRY AREA	1		0	1500	0	0	None Detected	No
Asbestos	S0003	FLOOR | VINYL SHEET FLOORING | VINYL SHEET FLOORING, NEWER STYLE	1		0	200	0	0	None Detected	No
Asbestos	V0000	CEILING | DRYWALL AND JOINT COMPOUND | SAMPLES 0002A-G 289439 NON-ASBESTOS JUNE 2021	1		0	0	0	100	Non Asbestos	No
Asbestos	V0000	WALL | ALUMINUM |	2		0	0	0	0	Non Asbestos	No
Asbestos	V0000	WALL | DRYWALL AND JOINT COMPOUND | 0002A-G 289439 NON-ASBESTOS JUNE 2021	1		0	0	0	100	Non Asbestos	No
Asbestos	V0000	WALL | STUCCO	2		0	0	0	100	Non Asbestos	No

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

PINCHIN
1.855.PINCHIN www.pinchin.com

Client:City of Winnipeg Water and Waste Dept **Site: , , MB** **Building Name: Staff House Building** **Surveyor: JYC** **Survey Date: 2008-04-14**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Phase	LF	SF	EA	%	Type	Positive
Asbestos	V9000	WALL | MORTAR	2		0	0	0	100	Confirmed Asbestos	Yes
Asbestos	V9500	CEILING | DRYWALL AND JOINT COMPOUND |	1		0	0	0	0	Presumed Asbestos	Yes
Asbestos	V9500	WALL | CEMENT PRODUCT |	2		0	300	0	0	Presumed Asbestos	Yes
Asbestos	V9500	WALL | DRYWALL AND JOINT COMPOUND |	1		0	0	0	50	Presumed Asbestos	Yes
Asbestos	V9500	WALL | MORTAR	1		0	0	0	33	Presumed Asbestos	Yes
Asbestos	V0000	CEILING | CEILING TILES (GLUE-ON) |	1		0	0	0	100	Non Asbestos	No
Asbestos	V0000	CEILING | CEILING TILES (LAY-IN)	1		0	0	0	100	Non Asbestos	No

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

PINCHIN
1.855.PINCHIN www.pinchin.com

Client:City of Winnipeg Water and Waste Dept **Site: , , MB** **Building Name: Storage Shed** **Surveyor: JYC** **Survey Date: 2008-04-14**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Phase	LF	SF	EA	%	Type	Positive
Asbestos	V9000	WALL | CEMENT PRODUCT	1		0	1200	0	0	Confirmed Asbestos	Yes

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

APPENDIX V

HMIS Data Report

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

ALL DATA REPORT

PINCHIN
1.855.PINCHIN www.pinchin.com

Client: City of Winnipeg Water and Waste Dept **Site: Shoal Lake** **Building Name: Foremans Residence**
Location: #1 : Foreman's Residence **Floor: Main** **Room #:** **Area (sqft): 0**
Survey Date: 2008-04-14 **Last Re-Assessment: 2019-07-05**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Drywall and joint compound, Sampled June 2021 289439 Non-asbestos			C			100			%	V0000	Non-Asbestos		None
Duct	All	Not Insulated													
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		100			%	V0000	Non-Asbestos		None
Mechanical Equipment	Heating Water Tank	Fibreglass	Insulation	Metal	A	Y									
Piping	All	Not Insulated													
Structure	Not Accessible	NI													
Wall		Drywall and joint compound, Sampled June 2021 - Non-asbestos			A			100			%	V0000	Non-Asbestos		None
Wall		Drywall and joint compound		Paint	A	Y			1		SF	S0001	None Detected	N.D.	None
Wall[1]		Mortar, Sampled 2021 - 289439 Non-asbestos		Ceramic Tiles				100			%	V0000	Non-Asbestos		None

Roof sections needs to be tested prior to any renovation or demolition activities.
1 - setting compound

Client: City of Winnipeg Water and Waste Dept **Site: Shoal Lake** **Building Name: Foremans Residence**
Location: #2 : Exterior **Floor:** **Room #:** **Area (sqft): 0**
Survey Date: 2008-04-14 **Last Re-Assessment: 2019-07-05**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Wall		Plaster, Stucco replaced during 2020 Renovation as reported by Operator						100			%	V0000	Non-Asbestos		None

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

ALL DATA REPORT

PINCHIN
1.855.PINCHIN www.pinchin.com

Client: City of Winnipeg Water and Waste Dept **Site: Shoal Lake** **Building Name: Intake (Operator) Residence**
Location: #1 : Intake Residence **Floor: Main** **Room #:** **Area (sqft): 0**
Survey Date: 2008-04-14 **Last Re-Assessment: 2019-07-05**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Drywall and joint compound			C			100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Duct	All	Not Insulated													
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		100			%	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI													
Piping	All	Not Insulated													
Structure	Not Accessible	NI													
Wall		Drywall and joint compound			A			100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

009 V0002 Sampled in Lakeview Residence

Client: City of Winnipeg Water and Waste Dept **Site: Shoal Lake** **Building Name: Intake (Operator) Residence**
Location: #2 : Basement **Floor: Basement** **Room #:** **Area (sqft): 0**
Survey Date: 2008-04-14 **Last Re-Assessment: 2019-07-05**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI													
Duct	All	Not Insulated													
Floor		Concrete (poured)													
Mechanical Equipment	Heating Water Tank	Fibreglass	Insulation	Metal	A	Y									
Piping	All	Not Insulated													
Structure	Steel Truss	Wood													
Wall		Drywall and joint compound			A			100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Concrete (poured)													

Client: City of Winnipeg Water and Waste Dept **Site: Shoal Lake** **Building Name: Intake (Operator) Residence**
Location: #3 : Exterior **Floor:** **Room #:** **Area (sqft): 0**
Survey Date: 2008-04-14 **Last Re-Assessment: 2019-07-05**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Other	Roof	Metal													
Wall[1]		Plaster						100			%	V9500	Presumed Asbestos		Presumed Asbestos(PF)
Wall[2]		Aluminum													

1 - Parging on lower exterior walls
2 - siding

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

ALL DATA REPORT

PINCHIN
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Client: City of Winnipeg Water and Waste Dept **Site: Shoal Lake** **Building Name: Lakeview Residence**
Location: #1 : Residence **Floor: Main** **Room #:** **Area (sqft): 0**
Survey Date: 2008-04-14 **Last Re-Assessment: 2019-07-05**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Drywall and joint compound, Samples 0002A-G 289439 Non-asbestos June 2021			C			100			%	V0000	Non-Asbestos		None
Duct	All	Not Insulated													
Floor		Vinyl Sheet Flooring	Surface	NI	A	Y		200			SF	S0003	None Detected	N.D.	None
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		1500			SF	S0002	None Detected	N.D.	None
Mechanical Equipment	Heating Water Tank	Fibreglass	Insulation	Metal	A	Y									
Piping	All	Not Insulated													
Structure	Steel Truss	Wood													
Wall		Drywall and joint compound, 0002A-G 289439 Non-asbestos June 2021			A			100			%	V0000	Non-Asbestos		None

Client: City of Winnipeg Water and Waste Dept **Site: Shoal Lake** **Building Name: Lakeview Residence**
Location: #2 : Exterior **Floor:** **Room #:** **Area (sqft): 0**
Survey Date: 2008-04-14 **Last Re-Assessment: 2019-07-05**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Other	Roof	Metal													
Wall[1]		Aluminum										V0000	Non-Asbestos		None
Wall		Stucco, 0001A-C 289439 June 2021 Non-asbestos						100			%	V0000	Non-Asbestos		None

1 - siding

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

ALL DATA REPORT

PINCHIN
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Client: City of Winnipeg Water and Waste Dept **Site: Shoal Lake** **Building Name: Staff House Building**
Location: #1 : Staff House **Floor: Main** **Room #:** **Area (sqft): 0**
Survey Date: 2008-04-14 **Last Re-Assessment: 2019-07-05**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Drywall and joint compound			C						%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Ceiling	ACOUSTIC TILE	Ceiling tiles (glue-on)	Surface	N/A	C	Y		100			%	V0000	Non-Asbestos		None
Ceiling	ACOUSTIC TILE	Ceiling Tiles (lay-in)	Surface	N/A	C	Y		100			%	V0000	Non-Asbestos		None
Ceiling		Wood													
Duct	All	Not Insulated													
Floor		Carpet													
Mechanical Equipment	All	Not Insulated													
Piping	All	Not Insulated													
Structure	Not Accessible	NI													
Wall		Drywall and joint compound			C			100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Mortar		Masonry				100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Client: City of Winnipeg Water and Waste Dept **Site: Shoal Lake** **Building Name: Staff House Building**
Location: #2 : Exterior **Floor:** **Room #:** **Area (sqft): 0**
Survey Date: 2008-04-14 **Last Re-Assessment: 2019-07-05**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Other	Roof	Metal													
Wall[1]		Cement Product						300			SF	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Mortar		Masonry				100			%	V9000	Confirmed Asbestos		Confirmed Asbestos(NF)

Mortar on exterior masonry walls suspect to contain asbestos
1 - Porch Area

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

ALL DATA REPORT

PINCHIN
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Client: City of Winnipeg Water and Waste Dept **Site: Shoal Lake** **Building Name: Storage Shed**
Location: #1 : Storage Shed **Floor: Main** **Room #:** **Area (sqft): 0**
Survey Date: 2008-04-14 **Last Re-Assessment: 2019-07-05**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI													
Duct	Not Found	NI													
Floor		Concrete (poured)													
Mechanical Equipment	Not Found	NI													
Piping	Not Found	NI													
Structure	Steel Truss	Wood													
Wall		Wood													
Wall		Cement Product	Exterior	Paint	A	Y		1200			SF	V9000	Confirmed Asbestos		Confirmed Asbestos(NF)

Roof sections needs to be tested prior to any renovation or demolition activities.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

FINAL

Asbestos Reassessment

WD Hurst Pumping Station
60 Hurst Way,
Winnipeg, Manitoba

Prepared for:

City of Winnipeg Water and Waste Department
110-1199 Pacific Avenue
Winnipeg, Manitoba R3E 3S8

August 26, 2021

Pinchin File: 289439

Issued to:	**City of Winnipeg Water and Waste Department**
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EXECUTIVE SUMMARY

City of Winnipeg Water and Waste Department (Client) retained Pinchin Ltd. (Pinchin) to conduct an asbestos building materials reassessment of WD Hurst Pumping Station located at 60 Hurst Way Winnipeg, Manitoba. The reassessment was performed on June 28, 2021.

The objective of the reassessment was to evaluate the condition and quantity of previously reported asbestos-containing materials (ACM), and develop corrective action plans as required for the purposes of long-term management. The results of this assessment are not intended for construction, renovation, demolition or project tendering purposes.

SUMMARY OF FINDINGS

Asbestos-containing materials (ACM) are present as follows:

- Mag Block present on exhaust ducting within Pump Floor Location No.10 is presumed to contain asbestos. Mag Block is jacketed with metal and is in GOOD condition.
- Asbestos-containing transite ceiling tiles previously reported as present throughout the building were removed during 2021.
- Asbestos-containing transite boards present as wall finish in the Landing/Loading Area (Location No. 5), and Pump Room (Location No. 10) are non-friable and are in GOOD condition.
- Asbestos-containing caulking present as a sealant on exterior walls is non-friable and is in GOOD condition.
- Loose fill vermiculite is suspect to be present within hollow core wall cavities of Location No.'s 17 and 18. Debris was not present.
- Setting compound on the back of ceramic tiles throughout building is presumed to contain asbestos. It is potentially friable and is in GOOD condition. and
- Mortar on masonry block walls of Location No.'s 17 and 18 is presumed to contain asbestos. The mortar is potentially friable and is in GOOD condition.

SUMMARY OF RECOMMENDATIONS

The following is a summary of significant recommendations; refer to the body of the report for detailed recommendations:

1. Perform a reassessment of asbestos materials on an annual basis;
2. Prior to renovations or demolition, perform a pre-construction assessment to identify any hazardous materials that may be disturbed by the work; and
3. Follow appropriate safe work procedures when handling or disturbing asbestos.

This Executive Summary is subject to the same standard limitations as contained in the report and must be read in conjunction with the entire report.

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APPENDICES

1.0 INTRODUCTION AND SCOPE

City of Winnipeg Water and Waste Department (Client) retained Pinchin Ltd. (Pinchin) to conduct an asbestos building materials reassessment within WD Hurst Pumping Station located at 60 Hurst Way Winnipeg, Manitoba.

Pinchin performed the reassessment on June 28, 2021. The surveyor was accompanied by City of Winnipeg Water and Waste representatives during the reassessment. The assessed area was occupied at the time of the assessment.

The objectives of the reassessment were to document the locations, quantities and conditions of previously identified asbestos containing building materials and develop corrective action plans as required. This reassessment is only to be used for the purposes of long-term management and routine maintenance. The results of this reassessment are not to be used for construction, renovation, demolition or project tendering purposes.

1.1 Scope of Assessment

The objective of the reassessment was to evaluate the condition and quantity of previously reported asbestos-containing materials (ACM), and develop corrective action plans as required.

Additional objectives included the following:

- Documentation of any asbestos abatement that was performed since the last reassessment.

Please refer to Appendix I for a detailed description of the methodology used for this assessment.

2.0 METHODOLOGY

Pinchin conducted an inspection of previously identified asbestos-containing materials (ACM) to evaluate the current condition of all accessible identified in the most recent assessment. The surveyor made reference to any existing assessment or abatement reports (as provided by the Client).

As per the original scope of work, concealed locations such as ceiling spaces above solid ceilings, shafts and chases were accessed via existing access panels. Our investigation did not include demolition of drywall or plaster walls to view concealed conditions. Structural items or exterior building finishes were not removed to determine the presence of concealed materials.

For further details on the methodology including test methods, refer to Appendix I.

3.0 BACKGROUND INFORMATION

3.1 Existing Reports and Summary of Asbestos Abatement

3.1.1 Review of Previous Reports

The reassessment was based on information gathered from previous comprehensive assessment report completed by Pinchin. The original assessment report for the W.D. Hurst Pumping Station was dated March 6, 2007. The results of the original report and subsequent survey update reports were reviewed prior to completing the reassessment.

3.1.2 Summary of Asbestos Abatement since the Previous Assessment

Abatement work has been completed on site since the last assessment. Based on a review of the above noted abatement reports, and observations made during the reassessment, the following abatement work has been conducted, since completion of the previous report:

- Transite cement tiles present as ceiling finishes throughout the building were removed during a 2021 renovation; and
- Eight transite tiles leaning against the wall from the Landing/Loading Area of the building (Location No. 5) were removed.

4.0 FINDINGS

The following section summarizes the findings of the reassessment and provides a general description of the asbestos-containing materials (ACM) identified and their locations.

For details on approximate quantities, condition, friability and locations of asbestos materials; refer to the Asbestos Material Summary Report and HMIS Data Report in Appendix III and IV.

4.1 Mechanical Equipment Insulation

One sample of Mag Block present on mechanical exhaust (30 LF) within Pump Floor Location No.10 was previously sampled and determined to be non-asbestos. Two additional samples are required to rule out the presence of asbestos. In the absence of additional sampling the Mag Block is presumed to contain asbestos. Mag Block is jacketed with metal and is in GOOD condition.

4.2 Vermiculite

As reported by client walls have been previously assessed and do not contain vermiculite within the Main Building, North West Building, and Drain Pump Building Location No.’s 1-16 and 19.

Loose fill vermiculite debris was not observed within the North Reservoir Building or B Pit Building (Location No.'s 17 and 18) however; demolition of masonry block walls has not been performed and vermiculite may be present within these cavities. Loose fill vermiculite was not observed within the cavities.

4.3 Asbestos Cement Products (Transite)

Asbestos-containing transite cement wall finish is present within Location No's 5 and 10. Approximately 166 SF of transite cement is present. Transite cement is non-friable and is in GOOD condition.

Asbestos-containing transite boards present as ceiling finish throughout the building were removed during a 2021 renovation. Approximately 7,750 SF of transite cement tiles were removed.

Approximately 8 SF of transite cement ceiling tiles debris was removed from Location No.5.

4.4 Sealants, Caulking, and Putty

Asbestos-containing grey caulking is present on exterior wall finish of the Main Building (Location No. 19). Caulking is a non-friable material which is in GOOD condition.

Asbestos-containing caulking in GOOD condition.

4.5 Roofing Products

Built up roofing materials on Location 19. Hurst Pumping Station were replaced during the 2021 renovation therefore are not suspect to contain asbestos.

Built up roofing materials present on the North Reservoir Building Location No.17 have not been sampled therefore are suspect to contain asbestos.

4.6 Other Building Materials

Mortar on masonry block walls of Location No.'s 17 and 18 is presumed to contain asbestos. The mortar is potentially friable and is in GOOD condition.

Setting compound on the back of ceramic tiles throughout building is presumed to contain asbestos. It is potentially friable and is in GOOD condition.

4.7 Excluded Asbestos Materials

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

- Roofing felts and tar, mastics;
- Floor levelling compound;
- Ceramic tile setting compound;
- Elevator and lift brakes;
- Electrical components;
- Moulded plastic components (laboratory bench tops);
- Refractory materials and insulations in stacks;
- Mechanical packing, ropes and gaskets;
- Vermiculite;
- Adhesives and duct mastics;
- Caulking and putties;
- Fibre-reinforced paints and coatings;
- Paper products;
- Soffit and fascia boards
- Fire resistant doors
- Metal clad finishes (Galbestos)
- Stucco, plaster or other cementitious parge coatings
- Vibration dampers on HVAC equipment
- Terrazzo
- Ropes and gaskets in cast-iron bell and spigot joints
- Sealants on pipe threads

5.0 RECOMMENDATIONS

5.1 General

Perform a detailed intrusive assessment prior to building renovation or demolition operations. The assessment should include; destructive testing (e.g. coring and/or removal of building finishes and components), sampling of other hazardous materials (lead, mercury, PCBs, mould, etc.), and materials not tested in this study (e.g. roofing materials, caulking, mastics).

5.2 On-going Management and Maintenance

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

Perform a reassessment of asbestos materials on an annual basis.

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

Update the asbestos inventory report for the building upon completion of any abatement of ACM.

6.0 TERMS AND LIMITATIONS

This work was performed subject to the Terms and Limitations presented or referenced in the proposal for this project.

Information provided by Pinchin is intended for Client use only. Pinchin will not provide results or information to any party unless disclosure by Pinchin is required by law. Any use by a third party of reports or documents authored by Pinchin or any reliance by a third party on or decisions made by a third party based on the findings described in said documents, is the sole responsibility of such third parties. Pinchin accepts no responsibility for damages suffered by any third party as a result of decisions made or actions conducted. No other warranties are implied or expressed.

7.0 REFERENCES

The following legislation and documents were referenced in completing the assessment and this report:

1. Workplace Safety and Health Act W210.
2. Workplace Safety and Health Hazard Regulation (Manitoba Regulation 217/2006), under the Workplace Safety and Health Act.
3. Manitoba Regulation MR 474/88, Manitoba PCB Regulation made under The Dangerous Goods Act.

4. Guide for Asbestos Management – Safe Work Manitoba.
5. Guideline Managing Demolition Debris Containing Hazardous Materials – Environmental Enforcement and Compliance Branch – Manitoba Conservation and Climate
6. Consolidated Transportation of Dangerous Goods Regulations, including Amendment SOR/2019-101, Transportation of Dangerous Goods Act.

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Template: Master Report for Asbestos Reassessment, HAZ, July 29, 2021

APPENDIX I

Methodology

1.0 METHODOLOGY

Pinchin conducts an inspection of previously identified asbestos-containing materials (ACM) to evaluate the current condition of all accessible identified in the most recent assessment. The surveyor makes reference to any existing assessment or abatement reports (as provided by the Client).

1.1 Limitations on Scope

The reassessment excludes the following:

- Articles belonging to the owner, tenant or occupant (e.g. stored items, furniture, appliances, etc.);
- Underground materials or equipment (e.g. vessels, drums, underground storage tanks, pipes, etc.);
- Building envelope, structural components, inaccessible or concealed materials or other items where sampling may cause consequential damage to the property.
- Energized systems (e.g. internal boiler components, elevators, mechanical or electrical components);
- Controlled products (e.g. stored chemicals, operational or process-related substances); and
- Materials not typically associated with construction (e.g. settled dust, spills, residual contamination from prior spills, etc.).

As per the original scope of work, concealed locations such as ceiling spaces above solid ceilings, shafts and chases are accessed via existing access panels. Our investigation does not include demolition of drywall or plaster walls to view concealed conditions. Structural items or exterior building finishes are not removed to determine the presence of concealed materials.

1.2 Methodology

Existing sampling data is reviewed and relied upon. If sampling is conducted, samples are collected at a rate that is in compliance with the requirements of local regulations and guidelines. The sampling strategy is also based on known ban dates and phase out dates of the use of asbestos; sampling of certain building materials is not conducted after specific construction dates. In addition, to be conservative, several years past these dates are added to account for some uncertainty in the exact start / finish date of construction and associated usage of ACM.

Materials listed as exclusions in the previous reports remain as exclusions. Sampling, assessment or verification of excluded materials was not conducted.

If present, the following materials are presumed to be asbestos-containing and are best sampled immediately prior to commencing renovation/disturbance:

- Roofing felts and tar, mastics;
- Floor levelling compound;
- Ceramic tile setting compound;
- Elevator and lift brakes;
- Electrical components or wiring within control centers, breakers, motors or lights, insulation on wiring;
- Moulded plastic components (laboratory bench tops);
- Refractory materials and insulations in boilers, incinerators and stacks;
- Insulation under metal clad boilers and vessels;
- Mechanical packing, ropes and gaskets;
- Vermiculite;
- Adhesives and duct mastics;
- Caulking and putties;
- Fibre-reinforced paints and coatings;
- Paper products;
- Soffit and fascia boards;
- Fire resistant doors;
- Metal clad finishes;
- Exterior cladding
- Stucco, plaster or other cementitious parge coatings; and
- Vibration dampers on HVAC equipment.

2.0 ANALYSIS AND IDENTIFICATION OF ASBESTOS MATERIALS

Pinchin relies on the analytical results of prior surveys. Asbestos bulk samples (if required) are analyzed at an independent NVLAP accredited laboratory. Preliminary identification of asbestos fibres is made using polarized light microscopy, with confirmation of the presence and type of asbestos made by dispersion staining optical microscopy. The analysis is performed in accordance with Test Method EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials, June 1993. All independent laboratories used by Pinchin, including our laboratory, are certified under the National Voluntary Laboratory Accreditation Program (NVLAP) to perform asbestos analysis of bulk samples.

Analytical results are compared to the following criteria:

Jurisdiction	Friable	Non-Friable
Manitoba	0.1%[1]	1%
Federal	1%	1%

The asbestos analysis is completed using a stop positive approach. Only one result meeting the above regulated criteria is required to determine that a material is asbestos-containing, but all samples must be analyzed to conclusively determine that a material is non-asbestos. The laboratory stops analyzing samples from a homogeneous material once a result equal to or greater than the regulated criteria is detected in any of the samples of that material. All samples of a homogeneous material are analyzed if no asbestos is detected. In some cases, all samples are analyzed in the sample set regardless of result.

Where building materials are described in the report as “non-asbestos” or “does not contain asbestos”, this means that either no asbestos was detected by the analytical method utilized in any of the multiple samples or, if detected, it is below the lower limit of an asbestos-containing material in the applicable regulation.

Asbestos materials are evaluated in order to make recommendations regarding remedial work. The priority for remedial action is based on several factors:

- Friability (friable or non-friable);
- Condition (good, fair, poor, debris);
- Accessibility (ranking from accessible to all building users to inaccessible);
- Visibility (whether the material is obscured by other building components); and
- Efficiency of the work (for example, if damaged ACM is being removed in an area, it may be most practical to remove all ACM in the area even if it is in good condition).

For a complete description of the Evaluation Criteria and Basis of Recommendations, refer to Annex A.

Template: Methodology for Asbestos Re-Assessment, HAZ, January 10, 2020

METHODOLOGY ANNEX A EVALUATION CRITERIA

1.0 EVALUATION CRITERIA AND BASIS OF RECOMMENDATIONS

The detailed asbestos assessment provides information regarding the location, condition, accessibility and friability of the asbestos-containing materials (ACM). In order to make recommendations for compliance with current regulations, Pinchin developed the following criteria.

2.0 EVALUATION OF CONDITION

2.1 Friable Sprayed or Trowelled Fireproofing, Thermal Insulation and Texture Finishes (Surfacing Materials)

To evaluate the condition of ACM sprayed or trowelled on fireproofing, sprayed or trowelled thermal insulation (non-mechanical), or texture, decorative or acoustic finishes, the following criteria are applied:

Good	Surface of material shows no significant signs of damage, deterioration or delamination. Good condition includes unencapsulated or unpainted fireproofing or texture finishes, where no or limited delamination or damage is observed, or encapsulated fireproofing or texture finishes where the encapsulant or paint has been applied after the damage or fallout occurred.
Poor	A sprayed material that shows signs of significant damage or is significantly delaminating or deteriorating. This may be limited to surface delamination or some portion of the substrate may be exposed.

In Locations where damage exists in isolated areas, both good and poor condition may be applicable. The extent of each condition will be recorded. Fair condition is not utilized in the evaluation of ACM sprayed or trowelled fireproofing, sprayed or trowelled thermal insulation (non-mechanical), or texture, decorative or acoustic finishes.

The evaluation of the above products above ceilings may be limited by the number of observations and by building components such as ducts or full height walls that obstruct the above ceiling observations.

2.2 Friable Mechanical or Thermal System Insulation (TSI)

To evaluate the condition of mechanical insulation on vessels, boilers, breeching, ducts, pipes, fan units, equipment etc. the following criteria are applied:

Good	Insulation is completely covered in jacketing and exhibits no evidence of damage or deterioration. No insulation is exposed. Includes conditions where the jacketing has minor damage (i.e. scuffs or stains), but the jacketing is not penetrated.
Fair	Minor penetrating damage to jacketed insulation (cuts, tears, nicks, deterioration or delamination) or undamaged insulation that has never been jacketed. Insulation is exposed but not showing surface disintegration. The extent of missing insulation ranges from minor to none. Damage can be repaired.
Poor	Original insulation jacket is missing, damaged, deteriorated or delaminated. Insulation is exposed and significant areas have been dislodged. Damage cannot be readily repaired. Includes components where insulation may have been removed incompletely.

The evaluation of mechanical insulation may be limited by the number of observations made and building components such as ducts or full height walls that obstruct observations. It is often not possible to observe each foot of mechanical insulation from all angles.

2.3 Potentially Friable Materials and Miscellaneous Friable Materials

Potentially friable ACM are products that are basically non-friable while in place but have the potential to generate friable dust upon removal or if significantly disturbed without appropriate procedures. These products may become friable if damaged. Potentially friable materials include materials such as acoustic ceiling tiles and plaster. To evaluate the condition of potentially friable materials, the following criteria are applied:

Good	No significant damage or deterioration. Still serving its intended use as a building material or finish.
Fair	Showing signs of some cracking or breakage, but is not deteriorating (e.g. cracked plaster, broken but in place ceiling tile, missing tile or section of plaster etc.). The condition is such that it is still serving its intended use as a building material or finish but may require repair for mainly cosmetic purposes.
Poor	Significant deterioration or breaking apart of the material. Material has deteriorated to the point it is not serving its intended use as building material or finish. Material has deteriorated to a point it has become friable. Normally potentially friable ACM in Poor condition is not repairable and requires at least localized removal and replacement.

2.4 Non-Friable Materials

Non-friable ACM cover a wide range of products with a wide variation in their tendency to release dust or asbestos fibres to the air. Many of these materials, (particularly where the matrix is an unweathered bitumen, asphalt or tar material) do not release fibres except in very unusual circumstances or during significant disturbance (e.g. use of abrasive power tools). Others with a cementitious matrix (asbestos-cement products) can more readily release dust due to abrasion, demolition, weathering, etc. The potential for asbestos release from non-friable ACM is always lower than from friable ACM. To evaluate the condition of non-friable Materials, the following criteria are applied:

Good	No significant damage or deterioration. Still serving its intended use as a building material or finish.
Fair	Showing signs of some cracking or breakage but is not deteriorating (e.g. cracked vinyl floor tile, missing piece of tile or transite, etc.). The condition is such that it is still serving its intended use as a building material or finish but may require repair for mainly cosmetic purposes.
Poor	Significant deterioration or breaking apart of the material to the point at which it cannot be repaired, and it will require at least local removal. Material has deteriorated to the point it is not serving its intended use as building material or finish. Material may have deteriorated to a point where traffic or disturbance may cause it to become friable.

2.5 Evaluation of ACM Debris

The identification of the exact location or presence of debris on the top of ceiling tiles is limited by the number of observations made and the presence of building components such as ducts or full height walls that obstruct observations.

The presence of fallen or dislodged ACM is noted separately from the ACM source and is referred to as Debris. Debris may be friable if from a friable ACM source or a badly deteriorated non-friable ACM source. Debris may also be non-friable (such as fallen pieces of transite sheet or mastic fittings, or broken, dislodged floor tiles).

Debris	Debris may be friable or non-friable but is always identified as debris.

2.6 Evaluation of Presumed Asbestos-Containing Material (PACM)

Presumed asbestos-containing materials (PACM), are building materials that may contain asbestos but were not sampled or analyzed due to inaccessibility or the need to perform destructive testing to obtain a reasonable sample set. Evaluation of these materials is based on the assumption that these PACM are asbestos-containing.

A list of PACM is provided in the report and they are generally not included in the detailed room by room reports. Typically, they are excluded because they are inaccessible or present in very small quantities. If PACM are evaluated, Pinchin uses the criteria that correspond with the type (and friability) of the material listed above.

3.0 EVALUATION OF ACCESSIBILITY

The accessibility of building materials known or suspected of being ACM is rated according to the following criteria:

Access (A)	Common areas of the building within reach of all building users (approximately 8 '-9' from floor or standard ceiling height). Includes other areas where occupant activities may result in disturbance of material that is not normally within reach from floor level, but may be disturbed by common activities (e.g. gymnasiums, workshops, warehouses)
Access (B)	Areas of the building accessed primarily by Maintenance/Caretaking/Janitorial Staff and within reach without use of a ladder. Includes areas within reach in Boiler Rooms, Electrical Rooms, Janitors Closets, Elevator Rooms, Mechanical Rooms, etc. Includes materials within reach from fixed ladders or catwalks, mezzanines, and accessible pipe chases.
Access (C) and Visible	Areas of the building above 8' - 9' where use of a ladder or scaffold is required to reach the ACM. Only includes ACM that are visible to view without the removal or opening of other building components such as ceiling tiles or service access panels. Visible column on HMIS sheets will say YES.
Access (C) and not Visible	Areas of the building above 8' - 9' where use of a ladder or scaffold is required to reach the ACM. Includes ACM that are not visible to view and require the removal of a building component to see, such as ceilings tiles or access panels to view and access. Includes rarely entered crawl spaces, attic spaces, etc. Observations will be limited to the extent visible from the access points. Visible column on HMIS sheets will say NO.
Access (D)	Areas of the building behind inaccessible solid ceiling systems, walls or equipment etc. where demolition of the ceiling, wall or equipment etc. is required to reach the ACM. Material inaccessible due to height or location or is only accessed under unusual situations. Evaluation of condition and extent of ACM is limited or impossible, depending on the surveyor's ability to visually examine materials in Access D.

4.0 ACTION MATRIX AND DEFINITIONS

Pinchin's evaluation of the viability of a specific asbestos control option is based on the consideration of the friability, condition, accessibility and visibility of a material. The logic used is that damaged ACM located in an area frequently accessed by all building occupants is of a higher priority than damaged ACM located in an infrequently accessed service area. The action matrix considers the potential for fibre release (primarily from friable ACM) and the possible concerns from regulatory bodies and many building occupants to all damaged ACM (including non-friable).

In any building with asbestos, many current regulations require an Asbestos Management Program be implemented. Depending on the condition and the accessibility, more active measures such as repair or removal may be recommended. The following matrix provides guidance for recommended Actions in the absence of renovation or demolition. In the event of construction or maintenance activity which will disturb ACM more aggressive control or removal will be required.

4.1 Action Matrix

The following tables outline the action decisions based on the relationship of assessed factors. Table I applies to friable ACM. Table II applies to non-friable ACM.

Table I Decision Matrix for Friable ACM

	Condition			
Access	**Good**	**Fair**	**Poor**	**Debris**
(A)	Action 5[1]	Action 5[2]	Action 3	Action 1
(B)	Action 7	Action 6[3]	Action 3	Action 1
(C) Visible	Action 7	Action 6	Action 3	Action 2
(C) Not Visible	Action 7	Action 7	Action 4	Action 2
(D)	Action 7	Action 7	Action 7	Action 7

Table II Decision Matrix for Potentially Friable and Non-Friable ACM

	Condition			
Access	**Good**	**Fair**	**Poor**	**Debris**
(A)	Action 7	Action 7[4]	Action 3	Action 1
(B)	Action 7	Action 7	Action 3	Action 1
(C) Visible	Action 7	Action 7	Action 4	Action 2
(C) Not Visible	Action 7	Action 7	Action 4	Action 2
(D)	Action 7	Action 7	Action 7	Action 7

[1] If friable ACM in access (A)/Good condition is not proactively removed Action 7 (Manage) is recommended.
[2] If friable ACM in access (A)/Fair condition is not proactively removed repair is recommended.
[3] If friable ACM in access (B)/Fair condition is likely to be disturbed after repair proactive removal is recommended.
[4] Action 7 is recommended for all non-friable ACM in Fair condition however some clients may wish to repair or take some action primarily for cosmetic reasons

4.2 Action Definitions

The following are the definitions in the Action Matrix Table presented above:

Action Definitions	
Action 1	Clean-Up of ACM Debris Restrict access that is likely to cause a disturbance of the ACM Debris and clean up ACM Debris. Utilize appropriate asbestos precautions.
Action 2	Precautions for Access Which may Disturb ACM Debris Use appropriate means to isolate the debris or to limit entry to the area which may disturb the material. At locations where ACM Debris can remain in place in lieu of removal or clean-up (e.g. Debris on top of ceiling tiles or behind lockable door), Utilize appropriate asbestos precautions to enter the area if this will disturb debris. The precautions will be required until the ACM Debris has been cleaned up.
Action 3	ACM Removal Remove ACM. Utilize asbestos procedures appropriate to the scope of the removal work. Until it is removed, restrict access to the material so it is not disturbed.
Action 4	Precautions for Work Which may Disturb ACM in Poor Condition. Utilize appropriate asbestos precautions if ACM may be disturbed by work on or near ACM. This does not require restricting access to the area, only control of work which may contact or disturb the ACM. Removal is the only viable option if work will disturb ACM.
Action 5	Proactive ACM Removal Remove friable ACM where the presence of friable asbestos in Good condition is not desirable. If friable ACM in Fair condition is not removed, then Repair friable ACM.
Action 6	ACM Repair Repair friable ACM in Fair condition which is not likely to be damaged again or disturbed by normal use of the area or room. Pinchin recommends proactive removal if friable ACM is likely to be damaged or disturbed during normal use of the area or room
Action 7	Asbestos Management Program with Routine Surveillance Implement an Asbestos Management Program, including routine surveillance of ACM. Reassess materials regularly (typically once per year).

Master Template: Methodology Annex A to Appendix I Evaluation Criteria, HAZ, January 10, 2020

APPENDIX II

Location Summary Report

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

LOCATIONS LIST

PINCHIN
1.855.PINCHIN www.pinchin.com

Client:City of Winnipeg Water and Waste Dept **Site: , , MB**
Building Name: W.D. Hurst Pumping Station
Survey Date: 2006-05-03 **Last Re-Assessment: 2021-06-28**

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Main Building - Vestibule	96	Main-Main Building	A	Floor setting compound is presumed asbestos containing. KGS Group determined the walls do not contain vermiculite as per their report dated October 29, 2019. Brick mortar was also sampled and determined to be non ACM.
2	Main Building - Office	308	Main-Main Building	A	KGS Group determined the walls do not contain vermiculite as per their report dated October 29, 2019. Brick mortar was also sampled and determined to be non ACM.
3	Main Building - Electrical Room	1080	Main-Main Building	A	KGS Group determined the walls do not contain vermiculite as per their report dated October 29, 2019. Brick mortar was also sampled and determined to be non ACM.
4	Main Building - Walkway	1500	Main-Main Building	A	Setting compound on ceramic tiles is presumed to contain asbestos KGS Group determined the walls do not contain vermiculite as per their report dated October 29, 2019. Brick mortar was also sampled and determined to be non ACM.
5	Main Building - Landing/Loading Area	750	Main-Main Building	A	KGS Group determined the walls do not contain vermiculite as per their report dated October 29, 2019. Brick mortar was sampled and determined to be non ACM.
6	Main Building - Walkway	120	Main-Main Building	A	KGS Group determined the walls do not contain vermiculite as per their report dated October 29, 2019. Brick mortar was sampled and determined to be non ACM.
7	Main Building - Stairwell	375	Main-Main Building	A	
8	Main Building - Chrlorine Room	400	Main-Main Building	A	KGS group determined there was no vermiculite inside hollow core block walls as per their report dated October 29, 2019. Brick mortar was sampled and determined to be non acm.
9	Main Building - Chlorine Tonner Room	2200	Main-Main Building	A	KGS Group determined the walls do not contain vermiculite as per their report dated October 29, 2019. Brick mortar was sampled and determined to be non ACM.
10	Main Building - Pump Room	7700	Basement-Main Building	A	Magnesia Block on generator exhaust duct is presumed asbestos containing KGS Group determined the walls do not contain vermiculite as per their report dated October 29, 2019. Brick mortar was also sampled and determined to be non ACM.
11	Main Building - Custodian Closet	32	Basement-Main Building	A	Ceramic tile setting compound is presumed asbestos containing. KGS Group determined the walls do not contain vermiculite as per their report dated October 29, 2019. Brick mortar was sampled and determined to be non ACM.
12	Main Building - Washroom	32	Basement-Main Building	A	KGS Group determined the walls do not contain vermiculite as per their report dated October 29, 2019. Brick mortar was sampled and determined to be non ACM.
13	Main Building - Crawlspace	2200	Basement-Main Building	A	
14	Main Building - Sub Basement	7700	Sub Basement-Main Building	A	
15	Northwest Building - Northwest Building	300	Main-Northwest Building	A	KGS Group determined the walls do not contain vermiculite as per their report dated October 29, 2019. Brick mortar was sampled and determined to be non ACM. Roof sections needs to be tested prior to any renovation or demolition activities.
16	Drain Pump Building	225	Main-Drain Pump Building	A	KGS Group determined the walls do not contain vermiculite as per their report dated October 29, 2019. Brick mortar was sampled and determined to be non ACM Roof sections needs to be tested prior to any renovation or demolition activities.
17	North Resevoir Building	300	Main-North Resevoir Building	A	Roof sections needs to be tested prior to any renovation or demolition activities. Vermiculite suspect to be present, Mortar on hollow core suspect to contain asbestos
18	B Pit Building	150	Main-B Pit Building	A	Masonry walls suspect to contain asbestos containing vermiculite insulation Mortar on cinder block walls is presumed asbestos containing. Roof sections needs to be tested prior to any renovation or demolition activities.
19	Hurst Pump Station Main Building Exterior	0	NA	A	KGS Group determined the walls do not contain vermiculite as per their report dated October 29, 2019. Brick mortar and roofing materials were replaced in 2021.

APPENDIX III

Asbestos Material Summary Report / Sample Log

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

PINCHIN
1.855.PINCHIN www.pinchin.com

Client:City of Winnipeg Water and Waste Dept **Site: , , MB** **Building Name: W.D. Hurst Pumping Station** **Surveyor: Jason Combes** **Survey Date: 2006-05-03**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	S0001	CEILING | CEILING TILES (LAY-IN) | ACOUSTIC TILE/AT-1/24X48/LOCATION 2	1,2	A	0	404	0	0	None Detected	No
Asbestos	S0002	OTHER | CEILING TILES (GLUE-ON) | GLUE ON TILE/12 X 12/LOCATION 10	10	A	0	70	0	0	None Detected	No
Asbestos	S0003	DUCT, MECHANICAL EQUIPMENT | MAGNESIA BLOCK | MAGBLOCK/GENE/LOCATION 10	5,10	A	70	0	0	0	None Detected	No
Asbestos	V0006	WALL | CEMENT PRODUCT | TRANSITE CEILING PANEL - PUMP AREA	10	A	0	16	0	0	Chrysotile	Yes
Asbestos	S0007	WALL | ADHESIVE/MASTIC | BLACK ADHESIVE ON CORK, LOC. 4, WALKWAY, MAIN FLR. MAIN BLDG. (BLACK, NON FIBROUS, HETEROGENOUS)	4	A	0	0	0	0	None Detected	No
Asbestos	V0008	WALL | ADHESIVE/MASTIC | BLACK ADHESIVE ON CORK, LOC. 5, LANDING/LOADING AREA, MAIN FLR. MAIN BLDG. (BLACK, NON FIBROUS, HETEROGENOUS)	5	A	0	0	0	0	None Detected	No
Asbestos	S0010	WALL | CAULKING | CAULKING, EXTERIOR WALL, HURST PUMPING STATION (SAMPLE NO. 0027 - AUGUST 27, 2015 - 1517151_PLM) (FOR SAMPLE 0010B-C IT WAS SAMPLE NO. 0027B-C- JUNE 30, 2016 - B131169)	19	A	0	0	0	100	Chrysotile	Yes
Asbestos	S0011	WALL | PLASTER | PLASTER WITH WIRE MESH, EXTERIOR WALL FOUNDATION, HURST PUMPING STATION (SAMPLE NO. 0028 - AUGUST 27, 2015 - 1517151_PLM) (FOR SAMPLE 0011B-C IT WAS SAMPLE NO. 0028B-C- JUNE 30, 2016 - B131169)	19	A	0	100	0	0	None Detected	No
Asbestos	S0012	WALL | PLASTER | PLASTER ON CONCRETE, EXTERIOR WALL FOUNDATION, HURST PUMPING STATION (SAMPLE NO. 0029 - AUGUST 27, 2015 - 1517151_PLM) (FOR SAMPLE 0012B-C IT WAS SAMPLE NO. 0029B-C- JUNE 30, 2016 - B131169)	19	A	0	24	0	0	None Detected	No
Asbestos	S0013	WALL | PLASTER | CEMENTED SMALL STONES, EXTERIOR WALL, HURST PUMPING STATION (SAMPLE NO. 0030 - AUGUST 27, 2015 - 1517151_PLM) (FOR SAMPLE 0013B-C IT WAS SAMPLE NO. 0030B-C- JUNE 30, 2016 - B131169)	19	A	0	244	0	0	None Detected	No
Asbestos	S0014	OTHER | PLASTER | GROUT FROM FLOOR TILES, LOCATION 5, LANDING LOADING AREA, MAIN BLDG., W.D. HURST PUMPING STATION B215313 AUG 2019	5	A	0	0	0	100	None Detected	No
Asbestos	V9000	WALL | CEMENT PRODUCT	5	A	0	150	0	0	Confirmed Asbestos	Yes
Asbestos	V9500	FLOOR | MORTAR |	1,4,6,10,11,12	A	0	0	0	100	Presumed Asbestos	Yes

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	V9500	WALL | MORTAR |	17,18	A	0	0	0	25	Presumed Asbestos	Yes
Asbestos	V9500	WALL | VERMICULITE	17,18	A	0	0	0	20	Presumed Asbestos	Yes
Asbestos	V0000	FLOOR | METAL |	10	A	0	0	0	0	Non Asbestos	No
Asbestos	V0000	FLOOR | VINYL SHEET FLOORING |	2	A	0	308	0	0	Non Asbestos	No
Asbestos	V0000	MECHANICAL EQUIPMENT | FIBREGLASS	10	A	0	0	0	100	Non Asbestos	No

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

APPENDIX IV

HMIS Data Report

Client: City of Winnipeg Water and Waste Dept **Site: W.D. Hurst Pumping Station** **Building Name: W.D. Hurst Pumping Station**
Location: #1 : Main Building - Vestibule **Floor: Main-Main Building** **Room #:** **Area (sqft): 96**
Survey Date: 2006-05-03 **Last Re-Assessment: 2021-06-28**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		N/A	Surface	N/A	C	Y		96			SF	V0001	None Detected	N.D.	None
Duct	Not Found	NI	No Information	NI											
Floor[1]	All	Mortar	Surface	Ceramic Tiles	B	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Floor		Ceramic Tiles	No Information	NI											
Mechanical Equipment	Not Found	N/A	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI				800							
Structure	Steel Truss	Metal	No Information	NI				800							
Wall		Masonry	No Information	NI											

Floor setting compound is presumed asbestos containing. KGS Group determined the walls do not contain vermiculite as per their report dated October 29, 2019. Brick mortar was also sampled and determined to be non ACM.
1 - Setting compound

Client: City of Winnipeg Water and Waste Dept **Site: W.D. Hurst Pumping Station** **Building Name: W.D. Hurst Pumping Station**
Location: #2 : Main Building - Office **Floor: Main-Main Building** **Room #:** **Area (sqft): 308**
Survey Date: 2006-05-03 **Last Re-Assessment: 2021-06-28**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		308			SF	S0001	None Detected	N.D.	None
Duct	Return Air	Not Insulated	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		308			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Steel Truss	Metal	No Information	NI											
Wall		Masonry	No Information	NI											

KGS Group determined the walls do not contain vermiculite as per their report dated October 29, 2019. Brick mortar was also sampled and determined to be non ACM.

Client: City of Winnipeg Water and Waste Dept **Site: W.D. Hurst Pumping Station** **Building Name: W.D. Hurst Pumping Station**
Location: #3 : Main Building - Electrical Room **Floor: Main-Main Building** **Room #:** **Area (sqft): 1080**
Survey Date: 2006-05-03 **Last Re-Assessment: 2021-06-28**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Other	Electrical Panel	Not Insulated	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Steel Truss	Metal	No Information	NI											
Wall		Masonry	No Information	NI											

KGS Group determined the walls do not contain vermiculite as per their report dated October 29, 2019. Brick mortar was also sampled and determined to be non ACM.

Client: City of Winnipeg Water and Waste Dept **Site: W.D. Hurst Pumping Station** **Building Name: W.D. Hurst Pumping Station**
Location: #4 : Main Building - Walkway **Floor: Main-Main Building** **Room #:** **Area (sqft): 1500**
Survey Date: 2006-05-03 **Last Re-Assessment: 2021-06-28**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found				C	Y									
Duct	Exhaust	Not Insulated	No Information	NI											
Floor	All	Mortar	Surface	Ceramic Tiles	B	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Electrical Panel	Not Insulated	No Information	NI											
Piping	Rain Water Leader	Fibreglass	Straight	N/A	C	Y									
Piping	Rain Water Leader	Fibreglass	Fitting	N/A	C	Y									
Structure	Beam, Deck	Metal	No Information	NI											
Wall		Adhesive/mastic	Surface	Cork	B	N						S0007	[None]		[None]
Wall		Masonry	Surface	Cork	B	Y									

Setting compound on ceramic tiles is presumed to contain asbestos KGS Group determined the walls do not contain vermiculite as per their report dated October 29, 2019. Brick mortar was also sampled and determined to be non ACM.

Client: City of Winnipeg Water and Waste Dept **Site: W.D. Hurst Pumping Station** **Building Name: W.D. Hurst Pumping Station**

Location: #5 : Main Building - Landing/Loading Area **Floor: Main-Main Building** **Room #:** **Area (sqft): 750**

Survey Date: 2006-05-03 **Last Re-Assessment: 2021-06-28**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found				C	Y					SF				
Duct	Generator Exhaust	Mortar	No Information	NI	C	Y		40			LF	V0003	None Detected	N.D.	None
Duct	Generator Exhaust	Mortar	No Information	NI	C	Y					LF	V0003	None Detected	N.D.	None
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	All	Plaster	Surface	Ceramic Tiles	A	Y		100			%	S0014	None Detected	N.D.	None
Other	Not Found	NI	No Information	NI											
Piping		Not Insulated	No Information	NI											
Structure	Beam, Deck	Metal	No Information	NI											
Wall		Cement Product	Surface		C	Y		150			SF	V9000	Confirmed Asbestos		Confirmed Asbestos(NF)
Wall		Adhesive/mastic	Surface	Cork	B	N						V0008	[None]		[None]
Wall		Masonry	Surface	Cork	B	Y									

KGS Group determined the walls do not contain vermiculite as per their report dated October 29, 2019. Brick mortar was sampled and determined to be non ACM.

Client: City of Winnipeg Water and Waste Dept **Site: W.D. Hurst Pumping Station** **Building Name: W.D. Hurst Pumping Station**
Location: #6 : Main Building - Walkway **Floor: Main-Main Building** **Room #:** **Area (sqft): 120**
Survey Date: 2006-05-03 **Last Re-Assessment: 2021-06-28**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found		Surface		C	Y									
Duct	Not Found	NI	No Information	NI											
Floor	All	Mortar	Surface	Ceramic Tiles	A	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Floor		Ceramic Tiles	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Metal	No Information	NI											
Wall		Masonry	Surface	Cork	B	Y									

KGS Group determined the walls do not contain vermiculite as per their report dated October 29, 2019. Brick mortar was sampled and determined to be non ACM.

Client: City of Winnipeg Water and Waste Dept **Site: W.D. Hurst Pumping Station** **Building Name: W.D. Hurst Pumping Station**
Location: #7 : Main Building - Stairwell **Floor: Main-Main Building** **Room #:** **Area (sqft): 375**
Survey Date: 2006-05-03 **Last Re-Assessment: 2021-06-28**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam, Deck	Metal	No Information	NI											
Wall		Metal	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: W.D. Hurst Pumping Station** **Building Name: W.D. Hurst Pumping Station**
Location: #8 : Main Building - Chrlorine Room **Floor: Main-Main Building** **Room #:** **Area (sqft): 400**
Survey Date: 2006-05-03 **Last Re-Assessment: 2021-06-28**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping		Not Insulated	No Information	NI											
Structure	Beam, Deck	Metal	No Information	NI											
Wall		Masonry	No Information	NI											

KGS group determined there was no vermiculite inside hollow core block walls as per their report dated October 29, 2019. Brick mortar was sampled and determined to be non acm.

Client: City of Winnipeg Water and Waste Dept **Site: W.D. Hurst Pumping Station** **Building Name: W.D. Hurst Pumping Station**
Location: #9 : Main Building - Chlorine Tonner Room **Floor: Main-Main Building** **Room #:** **Area (sqft): 2200**
Survey Date: 2006-05-03 **Last Re-Assessment: 2021-06-28**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping		Not Insulated	No Information	NI											
Structure	Beam, Deck	Metal	No Information	NI											
Wall		Masonry	No Information	NI											

KGS Group determined the walls do not contain vermiculite as per their report dated October 29, 2019. Brick mortar was sampled and determined to be non ACM.

Client: City of Winnipeg Water and Waste Dept **Site: W.D. Hurst Pumping Station** **Building Name: W.D. Hurst Pumping Station**
Location: #10 : Main Building - Pump Room **Floor: Basement-Main Building** **Room #:** **Area (sqft): 7700**
Survey Date: 2006-05-03 **Last Re-Assessment: 2021-06-28**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found														
Floor[1]	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Floor		Concrete (poured)	No Information	NI											
Floor		Metal	No Information	NI								0000	Non-Asbestos		None
Mechanical Equipment	Generator Exhaust	Magnesia block	System		C	Y		30			LF	S0003	[Asbestos]	N.D.	[Asbestos](F)
Mechanical Equipment	Generator Unit	Not Insulated	No Information	NI											
Mechanical Equipment	Generator Unit	Not Insulated	No Information	NI											
Mechanical Equipment	Heating Water Tank	Fibreglass	Surface	Foil Face	B	Y		100			%	V0000	Non-Asbestos		None
Mechanical Equipment	Pompe	Not Insulated	No Information	NI											
Mechanical Equipment	Pompe	Not Insulated	No Information	NI											
Mechanical Equipment	Pompe	Not Insulated	No Information	NI											
Mechanical Equipment	Pompe	Not Insulated	No Information	NI											

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Mechanical Equipment	Pompe	Not Insulated	No Information	NI											
Mechanical Equipment	Pompe	Not Insulated	No Information	NI											
Mechanical Equipment	Pompe	Not Insulated	No Information	NI											
Mechanical Equipment	Pompe	Not Insulated	No Information	NI											
Other		Ceiling tiles (glue-on)	Surface	N/A	B	Y		70			SF	S0002	None Detected	N.D.	None
Piping		Not Insulated	No Information	NI											
Structure	Beam, Deck	Metal	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Masonry	Surface	Cork	B	Y									
Wall		Cement Product	Surface	N/A	B	Y		16			SF	V0006	Chrysotile	25-50%	Confirmed Asbestos(NF)
Wall		Ceramic Tiles	No Information	NI											

Magnesia Block on generator exhaust duct is presumed asbestos containing KGS Group determined the walls do not contain vermiculite as per their report dated October 29, 2019. Brick mortar was also sampled and determined to be non ACM.

1 - Setting compound

Client: City of Winnipeg Water and Waste Dept **Site: W.D. Hurst Pumping Station** **Building Name: W.D. Hurst Pumping Station**
Location: #11 : Main Building - Custodian Closet **Floor: Basement-Main Building** **Room #:** **Area (sqft): 32**
Survey Date: 2006-05-03 **Last Re-Assessment: 2021-06-28**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found														
Duct	Not Found	NI	No Information	NI											
Floor[1]	All	Mortar	Surface	Ceramic Tiles	A	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Floor		Ceramic Tiles	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping		Not Insulated	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	Surface	Cork	C	Y									
Wall		Masonry	No Information	NI											

Ceramic tile setting compound is presumed asbestos containing. KGS Group determined the walls do not contain vermiculite as per their report dated October 29, 2019. Brick mortar was sampled and determined to be non ACM.
1 - Setting compound

Client: City of Winnipeg Water and Waste Dept **Site: W.D. Hurst Pumping Station** **Building Name: W.D. Hurst Pumping Station**
Location: #12 : Main Building - Washroom **Floor: Basement-Main Building** **Room #:** **Area (sqft): 32**
Survey Date: 2006-05-03 **Last Re-Assessment: 2021-06-28**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found														
Duct	Supply Air	Not Insulated	No Information	NI											
Floor[1]	All	Mortar	Surface	Ceramic Tiles	A	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Floor		Ceramic Tiles	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping		Not Insulated	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	Surface	Cork	C	Y									
Wall		Ceramic Tiles	No Information	NI											

KGS Group determined the walls do not contain vermiculite as per their report dated October 29, 2019. Brick mortar was sampled and determined to be non ACM.
1 - Setting compound

Client: City of Winnipeg Water and Waste Dept **Site: W.D. Hurst Pumping Station** **Building Name: W.D. Hurst Pumping Station**
Location: #13 : Main Building - Crawlspace **Floor: Basement-Main Building** **Room #:** **Area (sqft): 2200**
Survey Date: 2006-05-03 **Last Re-Assessment: 2021-06-28**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Dirt	No Information	NI											[None]
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping		Not Insulated	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: W.D. Hurst Pumping Station** **Building Name: W.D. Hurst Pumping Station**
Location: #14 : Main Building - Sub Basement **Floor: Sub Basement-Main Building** **Room #:** **Area (sqft): 7700**
Survey Date: 2006-05-03 **Last Re-Assessment: 2021-06-28**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping		Not Insulated	No Information	NI											
Structure	Beam, Deck	Concrete (poured)	No Information	NI											
Wall		Concrete (poured)	No Information	NI											

Client: City of Winnipeg Water and Waste Dept **Site: W.D. Hurst Pumping Station** **Building Name: W.D. Hurst Pumping Station**
Location: #15 : Northwest Building - Northwest Building **Floor: Main-Northwest Building** **Room #:** **Area (sqft): 300**
Survey Date: 2006-05-03 **Last Re-Assessment: 2021-06-28**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping		Not Insulated	No Information	NI											
Structure	Deck	Concrete (precast)	No Information	NI											
Wall		Masonry	Surface	Wood	B	Y									

KGS Group determined the walls do not contain vermiculite as per their report dated October 29, 2019. Brick mortar was sampled and determined to be non ACM. Roof sections needs to be tested prior to any renovation or demolition activities.

Client: City of Winnipeg Water and Waste Dept **Site: W.D. Hurst Pumping Station** **Building Name: W.D. Hurst Pumping Station**
Location: #16 : Drain Pump Building **Floor: Main-Drain Pump Building** **Room #:** **Area (sqft): 225**
Survey Date: 2006-05-03 **Last Re-Assessment: 2021-06-28**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Wood	No Information	NI											
Duct	Fresh Air Intake	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Pompe	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping		Not Insulated	No Information	NI											
Structure	N/A	NI	No Information	NI											
Wall		Masonry	Surface	Wood	B	Y									

KGS Group determined the walls do not contain vermiculite as per their report dated October 29, 2019. Brick mortar was sampled and determined to be non ACM Roof sections needs to be tested prior to any renovation or demolition activities.

Client: City of Winnipeg Water and Waste Dept **Site: W.D. Hurst Pumping Station** **Building Name: W.D. Hurst Pumping Station**
Location: #17 : North Resevoir Building **Floor: Main-North Resevoir Building** **Room #:** **Area (sqft): 300**
Survey Date: 2006-05-03 **Last Re-Assessment: 2021-06-28**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Electrical Panel	Not Insulated	No Information	NI											
Piping		Not Insulated	No Information	NI											
Structure	Deck	Concrete (precast)	No Information	NI											
Wall		Vermiculite	Insulation	Masonry	B	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	No Information	NI											

Roof sections needs to be tested prior to any renovation or demolition activities. Vermiculite suspect to be present, Mortar on hollow core suspect to contain asbestos

Client: City of Winnipeg Water and Waste Dept **Site: W.D. Hurst Pumping Station** **Building Name: W.D. Hurst Pumping Station**
Location: #18 : B Pit Building **Floor: Main-B Pit Building** **Room #:** **Area (sqft): 150**
Survey Date: 2006-05-03 **Last Re-Assessment: 2021-06-28**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping		Not Insulated	No Information	NI											
Structure	Deck	Concrete (precast)	No Information	NI											
Wall		Vermiculite	Insulation	Masonry	B	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall	All	Mortar	Surface		A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	Surface	Wood	B	Y									

Masonry walls suspect to contain asbestos containing vermiculite insulation Mortar on cinder block walls is presumed asbestos containing. Roof sections needs to be tested prior to any renovation or demolition activities.

Client: City of Winnipeg Water and Waste Dept **Site: W.D. Hurst Pumping Station** **Building Name: W.D. Hurst Pumping Station**

Location: #19 : Hurst Pump Station Main Building Exterior **Floor: NA** **Room #:** **Area (sqft): 0**

Survey Date: 2006-05-03 **Last Re-Assessment: 2021-06-28**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Wall	Exterior	Plaster		N/A	A	Y		100			SF	S0011	None Detected	N.D.	None
Wall	Exterior	Plaster	Base	N/A	A	Y		16		8	SF	S0012	None Detected	N.D.	None
Wall	Exterior	Masonry		Plaster	B	N		100			%				
Wall	Description Pending	Plaster	Exterior	N/A	A	Y		242		2	SF	S0013	None Detected	N.D.	None
Wall	Window Liner	Caulking	Exterior	N/A	A	Y		100			%	S0010	Chrysotile	0.1-1%	Confirmed Asbestos(NF)

KGS Group determined the walls do not contain vermiculite as per their report dated October 29, 2019. Brick mortar and roofing materials were replaced in 2021.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

FINAL

Asbestos Reassessment

Water and Waste Shop
Office Buildings
552 Plinguet Street,
Winnipeg, Manitoba

Prepared for:

City of Winnipeg Water and Waste Department
110-1199 Pacific Avenue
Winnipeg, Manitoba R23 3S8

October 14, 2021

Pinchin File: 289439

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EXECUTIVE SUMMARY

City of Winnipeg Water and Waste Department (Client) retained Pinchin Ltd. (Pinchin) to conduct an asbestos building materials reassessment of Water and Waste Shop Office Buildings located at 552 Plinguet Winnipeg, Manitoba. The reassessment was performed on June 29, 2021.

The objective of the reassessment was to evaluate the condition and quantity of previously reported asbestos-containing materials (ACM), and develop corrective action plans as required for the purposes of long-term management. The results of this assessment are not intended for construction, renovation, demolition or project tendering purposes.

The reassessment was based on information gathered from the previous comprehensive assessment reports completed by Pinchin. The original assessment report for the Water and Waste Shop Office Buildings 552 Plinguet was dated March 6, 2007. The results of the original report and subsequent survey update reports were reviewed prior to completing the reassessment.

The assessed area was limited to areas of the building where the original report and subsequent survey update reports had indicated asbestos-containing materials (ACMs) were present. Rooms where no ACMs were reported were not inspected.

HMIS data has been updated online. In addition, location photos depicting ACMs have been uploaded to

SUMMARY OF FINDINGS

Asbestos-containing materials (ACM) are present as follows:

- Aircell present on straight sections of the Domestic Water and Steam Supply systems within Location No. 20 contains asbestos. Aircell is a friable material.
- Vermiculite has been confirmed present within hollow core wall cavities of Location No.1 and is presumed present within hollow core wall cavities throughout remaining areas of the facility. Vermiculite is friable. No debris was identified during our assessment.
- Plaster present within the Garage, Washroom, Location No.29 is presumed to contain asbestos, is potentially friable, and is in GOOD condition.
- Drywall joint compound presumed to contain asbestos present as wall and ceiling finishes throughout the facility is potentially friable and was in GOOD condition
- Asbestos-containing transite boards present as a ceiling and wall finishes within Location No.'s 20, 27, and 28 are non-friable and are in GOOD condition.
- Asbestos-containing vinyl sheet flooring within Location No.'s 25, 26, and 27 are potentially friable and are in GOOD condition.

- Asbestos-containing vinyl floor tiles within Location No.'s 3 and 8 are non-friable and are in GOOD condition.
- Ceramic tile setting compound within Location No.'s 25 and 29 is presumed to contain asbestos, potentially friable, and in GOOD condition; and
- Mortar on masonry walls throughout the facility is presumed to contain asbestos, is potentially friable, and is in GOOD condition.

SUMMARY OF RECOMMENDATIONS

The following is a summary of significant recommendations; refer to the body of the report for detailed recommendations.

1. Perform a reassessment of asbestos materials on an annual basis.
2. Prior to renovations or demolition, perform a pre-construction assessment to identify any hazardous materials that may be disturbed by the work.
3. Follow appropriate safe work procedures when handling or disturbing asbestos.

This Executive Summary is subject to the same standard limitations as contained in the report and must be read in conjunction with the entire report.

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APPENDICES

1.0 INTRODUCTION AND SCOPE

City of Winnipeg Water and Waste Department (Client) retained Pinchin Ltd. (Pinchin) to conduct an asbestos building materials reassessment at 552 Plinguet Winnipeg, Manitoba.

Pinchin performed the reassessment on June 29, 2021. The surveyor was accompanied by City of Winnipeg Water and Waste Representatives during the reassessment. The assessed area was occupied at the time of the assessment.

The objectives of the reassessment were to document the locations, quantities and conditions of previously identified asbestos containing building materials and develop corrective action plans as required. This reassessment is only to be used for the purposes of long-term management and routine maintenance. The results of this reassessment are not to be used for construction, renovation, demolition or project tendering purposes.

1.1 Scope of Assessment

The objective of the reassessment was to evaluate the condition and quantity of previously reported asbestos-containing materials (ACM), and develop corrective action plans as required.

Additional objectives included the following:

- Documentation of any asbestos abatement that was performed since the last reassessment.

Please refer to Appendix I for a detailed description of the methodology used for this assessment.

2.0 METHODOLOGY

Pinchin conducted an inspection of previously identified asbestos-containing materials (ACM) to evaluate the current condition of all accessible identified in the most recent assessment. The surveyor made reference to any existing assessment or abatement reports (as provided by the Client).

As per the original scope of work, concealed locations such as ceiling spaces above solid ceilings, shafts and chases were accessed via existing access panels. Our investigation did not include demolition of drywall or plaster walls to view concealed conditions. Structural items or exterior building finishes were not removed to determine the presence of concealed materials.

For further details on the methodology including test methods, refer to Appendix I.

3.0 BACKGROUND INFORMATION

3.1 Existing Reports and Summary of Asbestos Abatement

3.1.1 Review of Previous Reports

The reassessment was based on information gathered from the previous comprehensive assessment reports completed by Pinchin. The original assessment report for the Water and Waste Shop Office Buildings 552 Plinguet was dated March 6, 2007. The results of the original report and subsequent survey update reports were reviewed prior to completing the reassessment

3.1.2 Summary of Asbestos Abatement since the Previous Assessment

Abatement work has been completed on site since the last assessment. Based on a review of the above noted abatement reports, and observations made during the reassessment, the following abatement work has been conducted, since completion of the previous report:

- Parging cement, Aircell and Sweatwrap were removed from Location No.19. All piping within Location No.19 is now insulated with non-asbestos fibreglass and jacketed with PVC.

3.2 Inaccessible Locations

The following rooms or areas, within the assessed area, were not accessible to the surveyor and are therefore not included in the report:

Area or Room	Reason	Previously identified ACM not inspected, and condition
Boiler Room, Location No.20	Locked, no access	Aircell, Mortar on masonry walls, and presumed vermiculite in hollow core wall cavities.

4.0 FINDINGS

The following section summarizes the findings of the reassessment and provides a general description of the asbestos-containing materials (ACM) identified and their locations.

For details on approximate quantities, condition, friability and locations of asbestos materials; refer to the Asbestos Material Summary Report and HMIS Data Report in Appendix III and IV.

4.1 Pipe Insulation

Asbestos-containing Aircell present on straight sections of the Domestic Water and Steam Supply systems within Location No. 20 contains asbestos. Aircell is a friable material.

Asbestos-containing parging cement is present on the Domestic Water system pipe fittings within Location No.19. Parging cement is a friable material which was jacketed with canvas and is in GOOD condition.

Pipes insulated with asbestos-containing insulations may be present in inaccessible spaces such as above solid ceilings, in chases, in column enclosures and within shafts, which are not identified in the above table.

4.2 Vermiculite

Vermiculite has been confirmed present within hollow core wall cavities of Location No.1 and is presumed present within hollow core wall cavities throughout remaining areas of the facility. Vermiculite is friable. No debris was identified during our assessment.

4.3 Plaster and Stucco

Plaster present as ceiling finish within Garage, Washroom, Location No.29 has not been sampled. In the absents of sampling is presumed to contain asbestos. Plaster is potentially friable and was in GOOD condition.

4.4 Drywall Joint Compound

Drywall (gypsum board) and drywall joint compound is present as a wall and/or ceiling finish throughout the building. Drywall joint compound containing asbestos was used in random fashion within this era of construction and may or may not contain asbestos. Drywall joint compound must be treated as suspect to contain asbestos unless proven otherwise by year of construction or bulk sampling. Drywall joint compound is non-friable while in place but can generate friable dust upon removal. All drywall joint compound was observed in GOOD condition.

4.5 Asbestos Cement Products (Transite)

Asbestos-containing transite board present as ceiling panels in the Garage Boiler Room (Location No. 20), Garage Men’s Locker Room (Location No. 27), Garage Hallway (Location No. 28) and present as wall panels in the Garage Hallway (Location No. 28) were in GOOD condition. Asbestos cement (Transite) is non-friable.

4.6 Vinyl Sheet Flooring

Asbestos-containing vinyl sheet flooring present in the Garage (Location No.’s 25, 26, and 27) is potentially friable, and is in GOOD condition.

4.7 Vinyl Floor Tiles, Baseboard, and Stair Flooring

Asbestos-containing vinyl floor tiles present in the Sewer Garage Mechanical Room (Location No. 3) and Sewer Garage Office (Location No. 8) are non-friable and have been maintained in GOOD condition.

4.8 Roofing Products

No visual inspection or sampling was conducted at this location. Roofing products are presumed to contain asbestos. Destructive testing will be required prior to any renovation or demolition activities.

4.9 Other Building Materials

Mortar present on masonry walls throughout the facility is presumed to contain asbestos, is potentially friable, and is in GOOD condition.

Ceramic tile setting compound within Location No's 25 and 29 is presumed to contain asbestos, is potentially friable, and in GOOD condition

4.10 Excluded Asbestos Materials

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

- Roofing felts and tar, mastics;
- Floor levelling compound;
- Elevator and lift brakes;
- Electrical components;
- Moulded plastic components (laboratory bench tops);
- Refractory materials and insulations in boilers, incinerators and stacks;
- Insulation under metal clad boilers and vessels;
- Mechanical packing, ropes and gaskets;
- Adhesives and duct mastics;
- Caulking and putties;
- Fibre-reinforced paints and coatings;
- Paper products;
- Soffit and fascia boards;
- Fire resistant doors;
- Metal clad finishes (Galbestos);

- Stucco, plaster or other cementitious parge coatings;
- Vibration dampers on HVAC equipment;
- Terrazzo;
- Ropes and gaskets in cast-iron bell and spigot joints; and
- Sealants on pipe threads.

5.0 RECOMMENDATIONS

5.1 General

Perform a detailed intrusive assessment prior to building renovation or demolition operations. The assessment should include; destructive testing (e.g., coring and/or removal of building finishes and components), sampling of other hazardous materials (lead, mercury, PCBs, mould, etc.), and materials not tested in this study (e.g., roofing materials, caulking, mastics).

5.2 On-going Management and Maintenance

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

Perform a reassessment of asbestos materials on an annual basis.

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

Update the asbestos inventory report for the building upon completion of any abatement of ACM.

6.0 TERMS AND LIMITATIONS

This work was performed subject to the Terms and Limitations presented or referenced in the proposal for this project.

Information provided by Pinchin is intended for Client use only. Pinchin will not provide results or information to any party unless disclosure by Pinchin is required by law. Any use by a third party of reports or documents authored by Pinchin or any reliance by a third party on or decisions made by a third party based on the findings described in said documents, is the sole responsibility of such third parties. Pinchin accepts no responsibility for damages suffered by any third party as a result of decisions made or actions conducted. No other warranties are implied or expressed.

7.0 REFERENCES

The following legislation and documents were referenced in completing the assessment and this report:

1. Workplace Safety and Health Act W210.
2. Workplace Safety and Health Hazard Regulation (Manitoba Regulation 217/2006), under the Workplace Safety and Health Act.
3. Manitoba Regulation MR 474/88, Manitoba PCB Regulation made under The Dangerous Goods Act.
4. Guide for Asbestos Management – Safe Work Manitoba.
5. Guideline Managing Demolition Debris Containing Hazardous Materials – Environmental Enforcement and Compliance Branch – Manitoba Conservation and Climate
6. Canada Occupational Health and Safety Regulation, SOR/86-304.
7. Consolidated Transportation of Dangerous Goods Regulations, including Amendment SOR/2019-101, Transportation of Dangerous Goods Act.

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Template: Master Report for Asbestos Reassessment, HAZ, July 29, 2021

APPENDIX I

Methodology

1.0 METHODOLOGY

Pinchin conducts an inspection of previously identified asbestos-containing materials (ACM) to evaluate the current condition of all accessible identified in the most recent assessment. The surveyor makes reference to any existing assessment or abatement reports (as provided by the Client).

1.1 Limitations on Scope

The re-assessment excludes the following:

- Articles belonging to the owner, tenant or occupant (e.g. stored items, furniture, appliances, etc.);
- Underground materials or equipment (e.g. vessels, drums, underground storage tanks, pipes, etc.);
- Building envelope, structural components, inaccessible or concealed materials or other items where sampling may cause consequential damage to the property;
- Energized systems (e.g. internal boiler components, elevators, mechanical or electrical components);
- Controlled products (e.g. stored chemicals, operational or process-related substances); and
- Materials not typically associated with construction (e.g. settled dust, spills, residual contamination from prior spills, etc.).

As per the original scope of work, concealed locations such as ceiling spaces above solid ceilings, shafts and chases are accessed via existing access panels. Our investigation does not include demolition of drywall or plaster walls to view concealed conditions. Structural items or exterior building finishes are not removed to determine the presence of concealed materials.

1.2 Methodology

Existing sampling data is reviewed and relied upon. If sampling is conducted, samples are collected at a rate that is in compliance with the requirements of local regulations and guidelines. The sampling strategy is also based on known ban dates and phase out dates of the use of asbestos; sampling of certain building materials is not conducted after specific construction dates. In addition, to be conservative, several years past these dates are added to account for some uncertainty in the exact start / finish date of construction and associated usage of ACM.

Materials listed as exclusions in the previous reports remain as exclusions. Sampling, assessment or verification of excluded materials was not conducted.

If present, the following materials are presumed to be asbestos-containing and are best sampled immediately prior to commencing renovation/disturbance:

- Roofing felts and tar, mastics;
- Floor levelling compound;
- Ceramic tile setting compound;
- Elevator and lift brakes;
- Electrical components or wiring within control centers, breakers, motors or lights, insulation on wiring;
- Moulded plastic components (laboratory bench tops);
- Refractory materials and insulations in boilers, incinerators and stacks;
- Insulation under metal clad boilers and vessels;
- Mechanical packing, ropes and gaskets;;
- Vermiculite;
- Adhesives and duct mastics;
- Caulking and putties;
- Fibre-reinforced paints and coatings;
- Paper products;
- Soffit and fascia boards;
- Fire resistant doors;
- Metal clad finishes;
- Exterior cladding;
- Stucco, plaster or other cementitious parge coatings; and
- Vibration dampers on HVAC equipment.

2.0 ANALYSIS AND IDENTIFICATION OF ASBESTOS MATERIALS

Pinchin relies on the analytical results of prior surveys. Asbestos bulk samples (if required) are analyzed at an independent NVLAP accredited laboratory. Preliminary identification of asbestos fibres is made using polarized light microscopy, with confirmation of the presence and type of asbestos made by dispersion staining optical microscopy. The analysis is performed in accordance with Test Method EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials, June 1993. All independent laboratories used by Pinchin, including our laboratory, are certified under the National Voluntary Laboratory Accreditation Program (NVLAP) to perform asbestos analysis of bulk samples.

Analytical results are compared to the following criteria:

Jurisdiction	Friable	Non-Friable
Manitoba	0.1%[1]	1%
Federal	1%	1%

The asbestos analysis is completed using a stop positive approach. Only one result meeting the above regulated criteria is required to determine that a material is asbestos-containing, but all samples must be analyzed to conclusively determine that a material is non-asbestos. The laboratory stops analyzing samples from a homogeneous material once a result equal to or greater than the regulated criteria is detected in any of the samples of that material. All samples of a homogeneous material are analyzed if no asbestos is detected. In some cases, all samples are analyzed in the sample set regardless of result.

Where building materials are described in the report as “non-asbestos” or “does not contain asbestos”, this means that either no asbestos was detected by the analytical method utilized in any of the multiple samples or, if detected, it is below the lower limit of an asbestos-containing material in the applicable regulation.

Asbestos materials are evaluated in order to make recommendations regarding remedial work. The priority for remedial action is based on several factors:

- Friability (friable or non-friable);
- Condition (good, fair, poor, debris);
- Accessibility (ranking from accessible to all building users to inaccessible);
- Visibility (whether the material is obscured by other building components); and
- Efficiency of the work (for example, if damaged ACM is being removed in an area, it may be most practical to remove all ACM in the area even if it is in good condition).

For a complete description of the Evaluation Criteria and Basis of Recommendations, refer to Annex A.

Template: Methodology for Asbestos Re-Assessment, HAZ, January 10, 2020

METHODOLOGY ANNEX A EVALUATION CRITERIA

1.0 EVALUATION CRITERIA AND BASIS OF RECOMMENDATIONS

The detailed asbestos assessment provides information regarding the location, condition, accessibility and friability of the asbestos-containing materials (ACM). In order to make recommendations for compliance with current regulations, Pinchin developed the following criteria.

2.0 EVALUATION OF CONDITION

2.1 Friable Sprayed or Trowelled Fireproofing, Thermal Insulation and Texture Finishes (Surfacing Materials)

To evaluate the condition of ACM sprayed or trowelled on fireproofing, sprayed or trowelled thermal insulation (non-mechanical), or texture, decorative or acoustic finishes, the following criteria are applied:

Good	Surface of material shows no significant signs of damage, deterioration or delamination. Good condition includes unencapsulated or unpainted fireproofing or texture finishes, where no or limited delamination or damage is observed, or encapsulated fireproofing or texture finishes where the encapsulant or paint has been applied after the damage or fallout occurred.
Poor	A sprayed material that shows signs of significant damage or is significantly delaminating or deteriorating. This may be limited to surface delamination or some portion of the substrate may be exposed.

In Locations where damage exists in isolated areas, both good and poor condition may be applicable. The extent of each condition will be recorded. Fair condition is not utilized in the evaluation of ACM sprayed or trowelled fireproofing, sprayed or trowelled thermal insulation (non-mechanical), or texture, decorative or acoustic finishes.

The evaluation of the above products above ceilings may be limited by the number of observations and by building components such as ducts or full height walls that obstruct the above ceiling observations.

2.2 Friable Mechanical or Thermal System Insulation (TSI)

To evaluate the condition of mechanical insulation on vessels, boilers, breeching, ducts, pipes, fan units, equipment etc. the following criteria are applied:

Good	Insulation is completely covered in jacketing and exhibits no evidence of damage or deterioration. No insulation is exposed. Includes conditions where the jacketing has minor damage (i.e. scuffs or stains), but the jacketing is not penetrated.
Fair	Minor penetrating damage to jacketed insulation (cuts, tears, nicks, deterioration or delamination) or undamaged insulation that has never been jacketed. Insulation is exposed but not showing surface disintegration. The extent of missing insulation ranges from minor to none. Damage can be repaired.
Poor	Original insulation jacket is missing, damaged, deteriorated or delaminated. Insulation is exposed and significant areas have been dislodged. Damage cannot be readily repaired. Includes components where insulation may have been removed incompletely.

The evaluation of mechanical insulation may be limited by the number of observations made and building components such as ducts or full height walls that obstruct observations. It is often not possible to observe each foot of mechanical insulation from all angles.

2.3 Potentially Friable Materials and Miscellaneous Friable Materials

Potentially friable ACM are products that are basically non-friable while in place but have the potential to generate friable dust upon removal or if significantly disturbed without appropriate procedures. These products may become friable if damaged. Potentially friable materials include materials such as acoustic ceiling tiles and plaster. To evaluate the condition of potentially friable materials, the following criteria are applied:

Good	No significant damage or deterioration. Still serving its intended use as a building material or finish.
Fair	Showing signs of some cracking or breakage, but is not deteriorating (e.g. cracked plaster, broken but in place ceiling tile, missing tile or section of plaster etc.). The condition is such that it is still serving its intended use as a building material or finish but may require repair for mainly cosmetic purposes.
Poor	Significant deterioration or breaking apart of the material. Material has deteriorated to the point it is not serving its intended use as building material or finish. Material has deteriorated to a point it has become friable. Normally potentially friable ACM in Poor condition is not repairable and requires at least localized removal and replacement.

2.4 Non-Friable Materials

Non-friable ACM cover a wide range of products with a wide variation in their tendency to release dust or asbestos fibres to the air. Many of these materials, (particularly where the matrix is an unweathered bitumen, asphalt or tar material) do not release fibres except in very unusual circumstances or during significant disturbance (e.g. use of abrasive power tools). Others with a cementitious matrix (asbestos-cement products) can more readily release dust due to abrasion, demolition, weathering, etc. The potential for asbestos release from non-friable ACM is always lower than from friable ACM. To evaluate the condition of non-friable Materials, the following criteria are applied:

Good	No significant damage or deterioration. Still serving its intended use as a building material or finish.
Fair	Showing signs of some cracking or breakage but is not deteriorating (e.g. cracked vinyl floor tile, missing piece of tile or transite, etc.). The condition is such that it is still serving its intended use as a building material or finish but may require repair for mainly cosmetic purposes.
Poor	Significant deterioration or breaking apart of the material to the point at which it cannot be repaired, and it will require at least local removal. Material has deteriorated to the point it is not serving its intended use as building material or finish. Material may have deteriorated to a point where traffic or disturbance may cause it to become friable.

2.5 Evaluation of ACM Debris

The identification of the exact location or presence of debris on the top of ceiling tiles is limited by the number of observations made and the presence of building components such as ducts or full height walls that obstruct observations.

The presence of fallen or dislodged ACM is noted separately from the ACM source and is referred to as Debris. Debris may be friable if from a friable ACM source or a badly deteriorated non-friable ACM source. Debris may also be non-friable (such as fallen pieces of transite sheet or mastic fittings, or broken, dislodged floor tiles).

Debris	Debris may be friable or non-friable but is always identified as debris.

2.6 Evaluation of Presumed Asbestos-Containing Material (PACM)

Presumed asbestos-containing materials (PACM), are building materials that may contain asbestos but were not sampled or analyzed due to inaccessibility or the need to perform destructive testing to obtain a reasonable sample set. Evaluation of these materials is based on the assumption that these PACM are asbestos-containing.

A list of PACM is provided in the report and they are generally not included in the detailed room by room reports. Typically, they are excluded because they are inaccessible or present in very small quantities. If PACM are evaluated, Pinchin uses the criteria that correspond with the type (and friability) of the material listed above.

3.0 EVALUATION OF ACCESSIBILITY

The accessibility of building materials known or suspected of being ACM is rated according to the following criteria:

Access (A)	Common areas of the building within reach of all building users (approximately 8 '-9' from floor or standard ceiling height). Includes other areas where occupant activities may result in disturbance of material that is not normally within reach from floor level, but may be disturbed by common activities (e.g. gymnasiums, workshops, warehouses)
Access (B)	Areas of the building accessed primarily by Maintenance/Caretaking/Janitorial Staff and within reach without use of a ladder. Includes areas within reach in Boiler Rooms, Electrical Rooms, Janitors Closets, Elevator Rooms, Mechanical Rooms, etc. Includes materials within reach from fixed ladders or catwalks, mezzanines, and accessible pipe chases.
Access (C) and Visible	Areas of the building above 8' - 9' where use of a ladder or scaffold is required to reach the ACM. Only includes ACM that are visible to view without the removal or opening of other building components such as ceiling tiles or service access panels. Visible column on HMIS sheets will say YES.
Access (C) and not Visible	Areas of the building above 8' - 9' where use of a ladder or scaffold is required to reach the ACM. Includes ACM that are not visible to view and require the removal of a building component to see, such as ceilings tiles or access panels to view and access. Includes rarely entered crawl spaces, attic spaces, etc. Observations will be limited to the extent visible from the access points. Visible column on HMIS sheets will say NO.
Access (D)	Areas of the building behind inaccessible solid ceiling systems, walls or equipment etc. where demolition of the ceiling, wall or equipment etc. is required to reach the ACM. Material inaccessible due to height or location or is only accessed under unusual situations. Evaluation of condition and extent of ACM is limited or impossible, depending on the surveyor's ability to visually examine materials in Access D.

4.0 ACTION MATRIX AND DEFINITIONS

Pinchin's evaluation of the viability of a specific asbestos control option is based on the consideration of the friability, condition, accessibility and visibility of a material. The logic used is that damaged ACM located in an area frequently accessed by all building occupants is of a higher priority than damaged ACM located in an infrequently accessed service area. The action matrix considers the potential for fibre release (primarily from friable ACM) and the possible concerns from regulatory bodies and many building occupants to all damaged ACM (including non-friable).

In any building with asbestos, many current regulations require an Asbestos Management Program be implemented. Depending on the condition and the accessibility, more active measures such as repair or removal may be recommended. The following matrix provides guidance for recommended Actions in the absence of renovation or demolition. In the event of construction or maintenance activity which will disturb ACM more aggressive control or removal will be required.

4.1 Action Matrix

The following tables outline the action decisions based on the relationship of assessed factors. Table I applies to friable ACM. Table II applies to non-friable ACM.

Table I Decision Matrix for Friable ACM

	Condition			
Access	**Good**	**Fair**	**Poor**	**Debris**
(A)	Action 5[1]	Action 5[2]	Action 3	Action 1
(B)	Action 7	Action 6[3]	Action 3	Action 1
(C) Visible	Action 7	Action 6	Action 3	Action 2
(C) Not Visible	Action 7	Action 7	Action 4	Action 2
(D)	Action 7	Action 7	Action 7	Action 7

Table II Decision Matrix for Potentially Friable and Non-Friable ACM

	Condition			
Access	**Good**	**Fair**	**Poor**	**Debris**
(A)	Action 7	Action 7[4]	Action 3	Action 1
(B)	Action 7	Action 7	Action 3	Action 1
(C) Visible	Action 7	Action 7	Action 4	Action 2
(C) Not Visible	Action 7	Action 7	Action 4	Action 2
(D)	Action 7	Action 7	Action 7	Action 7

[1] If friable ACM in access (A)/Good condition is not proactively removed Action 7 (Manage) is recommended.
[2] If friable ACM in access (A)/Fair condition is not proactively removed repair is recommended.
[3] If friable ACM in access (B)/Fair condition is likely to be disturbed after repair proactive removal is recommended.
[4] Action 7 is recommended for all non-friable ACM in Fair condition however some clients may wish to repair or take some action primarily for cosmetic reasons

4.2 Action Definitions

The following are the definitions in the Action Matrix Table presented above:

Action Definitions	
Action 1	Clean-Up of ACM Debris Restrict access that is likely to cause a disturbance of the ACM Debris and clean up ACM Debris. Utilize appropriate asbestos precautions.
Action 2	Precautions for Access Which may Disturb ACM Debris Use appropriate means to isolate the debris or to limit entry to the area which may disturb the material. At locations where ACM Debris can remain in place in lieu of removal or clean-up (e.g. Debris on top of ceiling tiles or behind lockable door), Utilize appropriate asbestos precautions to enter the area if this will disturb debris. The precautions will be required until the ACM Debris has been cleaned up.
Action 3	ACM Removal Remove ACM. Utilize asbestos procedures appropriate to the scope of the removal work. Until it is removed, restrict access to the material so it is not disturbed.
Action 4	Precautions for Work Which may Disturb ACM in Poor Condition. Utilize appropriate asbestos precautions if ACM may be disturbed by work on or near ACM. This does not require restricting access to the area, only control of work which may contact or disturb the ACM. Removal is the only viable option if work will disturb ACM.
Action 5	Proactive ACM Removal Remove friable ACM where the presence of friable asbestos in Good condition is not desirable. If friable ACM in Fair condition is not removed, then Repair friable ACM.
Action 6	ACM Repair Repair friable ACM in Fair condition which is not likely to be damaged again or disturbed by normal use of the area or room. Pinchin recommends proactive removal if friable ACM is likely to be damaged or disturbed during normal use of the area or room
Action 7	Asbestos Management Program with Routine Surveillance Implement an Asbestos Management Program, including routine surveillance of ACM. Reassess materials regularly (typically once per year).

Master Template: Methodology Annex A to Appendix I Evaluation Criteria, HAZ, January 10, 2020

APPENDIX II

Location Summary Report

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

LOCATIONS LIST

PINCHIN
1.855.PINCHIN www.pinchin.com

Client:City of Winnipeg Water and Waste Dept **Site: , , MB**
Building Name: 552 Plinguet Street
Survey Date: 2006-05-15 **Last Re-Assessment: 2021-06-29**

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Sewer Garage - Garage	14000	M	A	Asbestos containing vermiculite confirmed present inside masonry block walls. Mortar on cinder block walls is presumed asbestos containing.
2	Sewer Garage - Gym	2100	2	A	Asbestos containing vermiculite is suspect to be present within masonry block walls. Mortar on cinder block walls is presumed asbestos containing.
3	Sewer Garage - Mechanical Room	100	2	A	Asbestos containing vermiculite suspect to be present inside masonry block walls. Masonry on cinder block walls is presumed asbestos containing.
4	Sewer Garage - Men's Washroom	144	M	A	Asbestos containing vermiculite suspect to be present inside masonry block walls
5	Sewer Garage - Hallway, Locker and Laundry Area	210	M	A	Asbestos containing vermiculite suspect to be present inside masonry block walls
6	Sewer Garage - Janitor's Closet	0	M	A	NO ACCESS - No Access To Room. Asbestos containing vermiculite suspect to be present inside masonry block walls
7	Sewer Garage - Kitchen	240	M	A	Asbestos containing vermiculite suspect to be present inside masonry block walls
8	Sewer Garage - Electrical Room (Previous Office)	0	M	A	Asbestos containing vermiculite suspect to be present inside masonry block walls. Mortar on cinder block walls is presumed asbestos containing.
9	Sewer Garage - Hallway	0	M	A	Asbestos containing vermiculite suspect to be present inside masonry block walls
10	Sewer - Hydrant Shop	3200	M	A	Asbestos containing vermiculite suspect to be present inside masonry block walls. Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.
11	Sewer Shop - Meter Test Shop	1000	M	A	Asbestos containing vermiculite suspect to be present inside masonry block walls. Masonry on cinder block walls is presumed asbestos containing.
12	Sewer Garage - Stores Garage	2800	M	A	Asbestos containing vermiculite suspect to be present inside masonry block walls
13	Sewer Garage - Stores Room	1400	M	A	Masonry block walls not a suspect to contain vermiculite
14	Sewer Garage - East Stairwell	100	M	A	vermiculite suspect to be present inside masonry block walls
15	Sewer Garage - West Stairwell	100	M	A	vermiculite suspect to be present inside masonry block walls
16	Garage - Garage East	4800	M	A	Masonry block walls not a suspect to contain vermiculite when building was built 2004 as an extension.
17	Garage - Garage Centre	1200	M	A	Masonry block walls not a suspect to contain vermiculite when building was built 2004 as an extension.
18	Garage - Generator Room	300	M	A	Masonry block walls not a suspect to contain vermiculite when building was built 2004 as an extension.
19	Garage - Garage West	2000	M	A	Asbestos containing vermiculite suspect to be present inside masonry block walls. Mortar on cinder block walls is presumed asbestos containing.
20	Garage - Boiler Room	150	M	A	No Access during 2021 Reassessment. Asbestos containing vermiculite suspect to be present inside masonry block walls. Masonry on cinder block/brick walls is presumed asbestos containing.
21	Garage - Office	306	M	A	Asbestos containing vermiculite suspect to be present inside masonry block walls
22	Garage - Hallway	40	M	A	Asbestos containing vermiculite suspect to be present inside masonry block walls
23	Garage - Office (Old Computer/Training Room)	570	M	A	Asbestos containing vermiculite suspect to be present inside masonry block walls
24	Garage - Office	108	M	A	Asbestos containing vermiculite suspect to be present inside masonry block walls
25	Garage - Women's Washroom	40	M	A	Asbestos containing vermiculite suspect to be present inside masonry block walls
26	Garage - Closet	25	M	A	Asbestos containing vermiculite suspect to be present inside masonry block walls
27	Garage - Men's Locker Room	864	M	A	Asbestos containing vermiculite suspect to be present inside masonry block walls.
28	Garage - Hallway	230	M	A	Asbestos containing vermiculite suspect to be present inside masonry block walls. All Vinyl floor tiles were already abated in 2017.
29	Garage - Men's Shower/Washroom	96	M	A	Asbestos containing vermiculite suspect to be present inside masonry block walls. Setting compound on ceramic floor tiles is

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
					presumed asbestos containing.
30	Garage - Vestibule	20	M	A	Asbestos containing vermiculite suspect to be present inside masonry block walls
31	Sewer Garage - Storage	4200	2	A	Asbestos containing vermiculite suspect to be present inside masonry block walls
32	Sewer Garage Building Exterior	0	NA	A	Masonry walls suspect to contain asbestos containing vermiculite roofs needs to be tested prior to any renovation or demolition activities. Mortar on cinder block walls is presumed asbestos containing.
33	Garage Building Exterior	0	NA	A	Masonry walls suspect to contain asbestos containing vermiculite roofs needs to be tested prior to any renovation or demolition activities.

APPENDIX III

Asbestos Material Summary Report/Sample Log

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

PINCHIN
1.855.PINCHIN www.pinchin.com

Client:City of Winnipeg Water and Waste Dept **Site: 552 Plinguet Street, Winnipeg, MB** **Building Name: 552 Plinguet Street** **Surveyor: Jason Combe** **Survey Date: 2006-05-15**

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	S0001	CEILING | CEILING TILES (LAY-IN) | AT-1/ACOUSTIC TILE/24X48/WHITE SURFACE/GREY CROSS SECTION/LOCATION 5	5,7,8,27,28	A	0	1203	0	75	None Detected	No
Asbestos	S0002	CEILING | CEILING TILES (LAY-IN) | AT-2/ACOUSTIC TILE/24X48/WHITE SURFACE/GREY CROSS SECTION/LOCATION 5	5,7,8,9,27,28	A	0	198	0	25	None Detected	No
Asbestos	V0003	PIPING | AIRCELL | AIRCELL/STR/STMS/LOCATION 19	20	A	9	0	0	0	Chrysotile	Yes
Asbestos	S0006	PIPING | PARGING OVER FIBREGLASS | PARGING/FTG/CONR/LOCATION 20	20	A	0	0	55	0	None Detected	No
Asbestos	S0007	MECHANICAL EQUIPMENT | FIBREGLASS W/PARGING | PARGING/END/EXCH/LOCATION 20	20	A	0	1	0	0	None Detected	No
Asbestos	S0008	CEILING | CEILING TILES (LAY-IN) | AT-3/ACOUSTIC TILE/24X24/WHITE SURFACE/GREY CROSS SECTION/LOCATION 21	21,23,24,27	A	0	1208	0	0	None Detected	No
Asbestos	S0009	CEILING | CEILING TILES (GLUE-ON) | AT-4/ACOUSTIC TILE/12X12/BEIGE SURFACE/BEIGE CROSS SECTION/LOCATION 24	24,30	A	0	128	0	0	None Detected	No
Asbestos	S0011	FLOOR | VINYL SHEET FLOORING | VINYL SHEET FLOORING/LOCATION 27	26,27	A	0	889	0	0	Chrysotile	Yes
Asbestos	V9000	CEILING | CEMENT PRODUCT |	20,27,28	A	0	649	0	0	Confirmed Asbestos	Yes
Asbestos	V9000	FLOOR | VINYL FLOOR TILE AND MASTIC |	3,8	A	0	514	0	0	Confirmed Asbestos	Yes
Asbestos	V9000	WALL | CEMENT PRODUCT |	28	A	0	176	0	0	Confirmed Asbestos	Yes
Asbestos	V9000	WALL | VERMICULITE/CONCRETE BLOCK WALLS	1	A	0	0	0	100	Confirmed Asbestos	Yes
Asbestos	V9500	CEILING | DRYWALL COMPOUND |	4,5,14,15,18,25,26	A	0	0	0	100	Presumed Asbestos	Yes
Asbestos	V9500	CEILING | PLASTER |	29	A	0	0	0	13	Presumed Asbestos	Yes
Asbestos	V9500	FLOOR | MORTAR |	29	A	0	0	0	11	Presumed Asbestos	Yes
Asbestos	V9500	FLOOR | VINYL SHEET FLOORING |	25	A	0	40	0	0	Presumed Asbestos	Yes
Asbestos	V9500	WALL | DRYWALL AND JOINT COMPOUND |	2	A	0	0	0	10	Presumed Asbestos	Yes
Asbestos	V9500	WALL | DRYWALL COMPOUND |	3,4,5,7,8,9,10,11,14,15,18,21,23,24,25,26,27,28 29	A	0	0	0	66	Presumed Asbestos	Yes
Asbestos	V9500	WALL | MORTAR |	1,2,3,8,10,11,19,20,25,29,32,33	A	0	11000	0	24	Presumed Asbestos	Yes

HAZMAT	Sample No	System/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive
Asbestos	V9500	WALL | VERMICULITE |	32,33	A	0	5000	0	0	Presumed Asbestos	Yes
Asbestos	V9500	WALL | VERMICULITE/CONCRETE BLOCK WALLS	2,3,4,5,7,8,9,10,11,12,19,20,21,22,23,24,25,26 27,28,29,30,31	A	0	0	0	38	Presumed Asbestos	Yes
Asbestos	V0000	CEILING | DRYWALL (NO COMPOUND) |	5	A	0	210	0	0	Non Asbestos	No
Asbestos	V0000	FLOOR | CONCRETE (POURED) |	8	A	0	57	0	0	Non Asbestos	No
Asbestos	V0000	FLOOR | VINYL SHEET FLOORING |	4,5,7,9,21	A	0	1140	0	0	Non Asbestos	No
Asbestos	V0000	MECHANICAL EQUIPMENT | FIBREGLASS |	20	A	0	0	0	0	Non Asbestos	No
Asbestos	V0000	PIPING | FIBREGLASS	20	A	0	0	0	0	Non Asbestos	No

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

APPENDIX IV

HMIS Data Report

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

ALL DATA REPORT

PINCHIN
1.855.PINCHIN www.pinchin.com

Client: City of Winnipeg Water and Waste Dept **Site: 552 Plinguet Street** **Building Name: 552 Plinguet Street**
Location: #1 : Sewer Garage - Garage **Floor: M** **Room #:** **Area (sqft): 14000**
Survey Date: 2006-05-15 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI													
Ceiling	Not Found	NI													
Duct	Supply Air	Not Insulated													
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI													
Other	Not Found	NI													
Piping	All	Not Insulated													
Structure	Beam	Metal													
Wall		Masonry													
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	All	Vermiculite/concrete block walls	ALL		A	N		100			%	V9000	Confirmed Asbestos		Confirmed Asbestos(F)

Asbestos containing vermiculite confirmed present inside masonry block walls. Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: 552 Plinguet Street** **Building Name: 552 Plinguet Street**
Location: #2 : Sewer Garage - Gym **Floor: 2** **Room #:** **Area (sqft): 2100**
Survey Date: 2006-05-15 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Abated Material	Surface	N/A	A	Y					SF	V9000	[None]		[Abated]
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam	Metal	No Information	NI											
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	All	Vermiculite/concrete block walls	ALL	N/A	A	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall		Drywall and joint compound						100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Masonry	No Information	NI											

Asbestos containing vermiculite is suspect to be present within masonry block walls. Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: 552 Plinguet Street** **Building Name: 552 Plinguet Street**
Location: #3 : Sewer Garage - Mechanical Room **Floor: 2** **Room #:** **Area (sqft): 100**
Survey Date: 2006-05-15 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Combustion Air	Not Insulated	No Information	NI											
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Vinyl Floor Tile and Mastic	Surface	N/A	A	Y		100			SF	V9000	Confirmed Asbestos		Confirmed Asbestos(NF)
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Mechanical Equipment	Furnace	Not Insulated	No Information	NI											
Mechanical Equipment	Heating Water Tank	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	All	Not Insulated	No Information	NI											
Structure	Beam	Metal	No Information	NI											
Wall		Drywall Compound	Surface	Paint	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	All	Vermiculite/concrete block walls	ALL	N/A	A	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall		Masonry	No Information	NI											

Asbestos containing vermiculite suspect to be present inside masonry block walls. Masonry on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: 552 Plinguet Street** **Building Name: 552 Plinguet Street**
Location: #4 : Sewer Garage - Men's Washroom **Floor: M** **Room #:** **Area (sqft): 144**
Survey Date: 2006-05-15 **Last Re-Assessment: 2021-06-29**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Drywall (no compound)													
Ceiling	All	Drywall Compound	Surface	NI	C	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Duct	Not Found	NI	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		144			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	N/A	NI	No Information	NI											
Wall		Drywall (no compound)													
Wall	All	Drywall Compound	Surface	NI	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	All	Vermiculite/concrete block walls	ALL	Drywall (no compound)	A	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)

Asbestos containing vermiculite suspect to be present inside masonry block walls

Client: City of Winnipeg Water and Waste Dept **Site: 552 Plinguet Street** **Building Name: 552 Plinguet Street**

Location: #5 : Sewer Garage - Hallway, Locker and Laundry Area **Floor: M** **Room #:** **Area (sqft): 210**

Survey Date: 2006-05-15 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	All	Drywall Compound	Surface	NI	C	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		70			%	S0001	None Detected	N.D.	None
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		30			%	S0002	None Detected	N.D.	None
Ceiling		Drywall (no compound)	Surface	N/A	C	N		210			SF	V0000	Non-Asbestos		None
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		210			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	N/A	NI	No Information	NI											
Wall		Drywall (no compound)													
Wall	All	Drywall Compound	Surface	NI	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	All	Vermiculite/concrete block walls	ALL	Drywall (no compound)	A	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)

Asbestos containing vermiculite suspect to be present inside masonry block walls

Client: City of Winnipeg Water and Waste Dept **Site: 552 Plinguet Street** **Building Name: 552 Plinguet Street**
Location: #6 : Sewer Garage - Janitor's Closet **Floor: M** **Room #:** **Area (sqft): 0**
Survey Date: 2006-05-15 **Last Re-Assessment: 2021-06-29**

ASBESTOS - NO ACCESS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard

No Access To Room. Asbestos containing vermiculite suspect to be present inside masonry block walls

Client: City of Winnipeg Water and Waste Dept **Site: 552 Plinguet Street** **Building Name: 552 Plinguet Street**
Location: #7 : Sewer Garage - Kitchen **Floor: M** **Room #:** **Area (sqft): 240**
Survey Date: 2006-05-15 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		220			SF	V0001	None Detected	N.D.	None
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		20			SF	V0002	None Detected	N.D.	None
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		240			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Drywall (no compound)													
Wall	All	Drywall Compound	Surface	NI	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	All	Vermiculite/concrete block walls	ALL	Drywall (no compound)	A	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)

Asbestos containing vermiculite suspect to be present inside masonry block walls

Client: City of Winnipeg Water and Waste Dept **Site: 552 Plinguet Street** **Building Name: 552 Plinguet Street**

Location: #8 : Sewer Garage - Electrical Room (Previous Office) **Floor: M** **Room #:** **Area (sqft): 0**

Survey Date: 2006-05-15 **Last Re-Assessment: 2021-06-29**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		471			SF	V0001	None Detected	N.D.	None
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		20			SF	V0002	None Detected	N.D.	None
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	Surface	N/A	A	Y		57			SF	V0000	Non-Asbestos		None
Floor		Vinyl Floor Tile and Mastic	Surface	N/A	A	Y		414			SF	V9000	Confirmed Asbestos		Confirmed Asbestos(NF)
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Drywall (no compound)													
Wall	All	Drywall Compound	Surface	NI	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	All	Vermiculite/concrete block walls	ALL	Drywall (no compound)	A	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)

Asbestos containing vermiculite suspect to be present inside masonry block walls. Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: 552 Plinguet Street** **Building Name: 552 Plinguet Street**
Location: #9 : Sewer Garage - Hallway **Floor: M** **Room #:** **Area (sqft): 0**
Survey Date: 2006-05-15 **Last Re-Assessment: 2021-06-29**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	N/A	C	Y		30			SF	V0002	None Detected	N.D.	None
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		240			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Deck	Concrete (poured)	No Information	NI											
Wall		Drywall (no compound)													
Wall	All	Drywall Compound	Surface	NI	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	All	Vermiculite/concrete block walls	ALL	N/A	A	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)

Asbestos containing vermiculite suspect to be present inside masonry block walls

Client: City of Winnipeg Water and Waste Dept **Site: 552 Plinguet Street** **Building Name: 552 Plinguet Street**
Location: #10 : Sewer - Hydrant Shop **Floor: M** **Room #:** **Area (sqft): 3200**
Survey Date: 2006-05-15 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Heating Water Tank	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	All	Not Insulated	No Information	NI											
Structure	Beam	Metal	No Information	NI											
Wall		Drywall (no compound)													
Wall	All	Drywall Compound	Surface	NI	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	All	Vermiculite/concrete block walls	ALL	N/A	A	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall		Wood	No Information	NI											
Wall		Metal Lath	No Information	NI											

Asbestos containing vermiculite suspect to be present inside masonry block walls. Grout (masonry mortar/cement/plaster) on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: 552 Plinguet Street** **Building Name: 552 Plinguet Street**
Location: #11 : Sewer Shop - Meter Test Shop **Floor: M** **Room #:** **Area (sqft): 1000**
Survey Date: 2006-05-15 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	All	Not Insulated	No Information	NI											
Structure	Beam	Metal	No Information	NI											
Wall		Drywall (no compound)													
Wall	All	Drywall Compound	Surface	NI	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	All	Vermiculite/concrete block walls	ALL	N/A	A	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)

Asbestos containing vermiculite suspect to be present inside masonry block walls. Masonry on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: 552 Plinguet Street** **Building Name: 552 Plinguet Street**
Location: #12 : Sewer Garage - Stores Garage **Floor: M** **Room #:** **Area (sqft): 2800**
Survey Date: 2006-05-15 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Fibreglass	Surface	Floor Levelling Compound	C	Y									
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	All	Not Insulated	No Information	NI											
Structure	Steel Truss	Metal	No Information	NI											
Wall	All	Vermiculite/concrete block walls	ALL	Wood	A	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall		Wood	No Information	NI											

Asbestos containing vermiculite suspect to be present inside masonry block walls

Client: City of Winnipeg Water and Waste Dept **Site: 552 Plinguet Street** **Building Name: 552 Plinguet Street**
Location: #13 : Sewer Garage - Stores Room **Floor: M** **Room #:** **Area (sqft): 1400**
Survey Date: 2006-05-15 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Steel Truss	Metal	No Information	NI											
Wall		Wood	No Information	NI											

Masonry block walls not a suspect to contain vermiculite

Client: City of Winnipeg Water and Waste Dept **Site: 552 Plinguet Street** **Building Name: 552 Plinguet Street**
Location: #14 : Sewer Garage - East Stairwell **Floor: M** **Room #:** **Area (sqft): 100**
Survey Date: 2006-05-15 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Drywall (no compound)													
Ceiling	All	Drywall Compound	Surface	NI	C	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	N/A	NI	No Information	NI											
Wall		Drywall (no compound)													
Wall	All	Drywall Compound	Surface	NI	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Wood	No Information	NI											

vermiculite suspect to be present inside masonry block walls

Client: City of Winnipeg Water and Waste Dept **Site: 552 Plinguet Street** **Building Name: 552 Plinguet Street**
Location: #15 : Sewer Garage - West Stairwell **Floor: M** **Room #:** **Area (sqft): 100**
Survey Date: 2006-05-15 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Drywall (no compound)													
Ceiling	All	Drywall Compound	Surface	NI	C	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	N/A	NI	No Information	NI											
Wall		Drywall (no compound)													
Wall	All	Drywall Compound	Surface	NI	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Wood	No Information	NI											

vermiculite suspect to be present inside masonry block walls

Client: City of Winnipeg Water and Waste Dept **Site: 552 Plinguet Street** **Building Name: 552 Plinguet Street**
Location: #16 : Garage - Garage East **Floor: M** **Room #:** **Area (sqft): 4800**
Survey Date: 2006-05-15 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	All	Not Insulated	No Information	NI											
Structure	Joist	Wood	No Information	NI											
Wall		Masonry	No Information	NI											

Masonry block walls not a suspect to contain vermiculite when building was built 2004 as an extension.

Client: City of Winnipeg Water and Waste Dept **Site: 552 Plinguet Street** **Building Name: 552 Plinguet Street**
Location: #17 : Garage - Garage Centre **Floor: M** **Room #:** **Area (sqft): 1200**
Survey Date: 2006-05-15 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Not Found	NI	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	All	Not Insulated	No Information	NI											
Structure	Steel Truss	Wood	No Information	NI											
Wall		Masonry	No Information	NI											

Masonry block walls not a suspect to contain vermiculite when building was built 2004 as an extension.

Client: City of Winnipeg Water and Waste Dept **Site: 552 Plinguet Street** **Building Name: 552 Plinguet Street**
Location: #18 : Garage - Generator Room **Floor: M** **Room #:** **Area (sqft): 300**
Survey Date: 2006-05-15 **Last Re-Assessment: 2021-06-29**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Drywall (no compound)													
Ceiling	All	Drywall Compound	Surface	NI	C	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Duct	Fresh Air Intake	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Generator Exhaust	Not Insulated	No Information	NI											
Mechanical Equipment	Generator Unit	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	All	Not Insulated	No Information	NI											
Structure	N/A	NI	No Information	NI											
Wall		Drywall (no compound)													
Wall	All	Drywall Compound	Surface	NI	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)

Masonry block walls not a suspect to contain vermiculite when building was built 2004 as an extension.

Client: City of Winnipeg Water and Waste Dept **Site: 552 Plinguet Street** **Building Name: 552 Plinguet Street**
Location: #19 : Garage - Garage West **Floor: M** **Room #:** **Area (sqft): 2000**
Survey Date: 2006-05-15 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Fibreglass	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Piping	All	Fibreglass	ALL	Polyvinyl chloride (PVC)											
Structure	Steel Truss	Metal	No Information	NI											
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	All	Vermiculite/concrete block walls	ALL	N/A	A	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall		Masonry	No Information	NI											

Asbestos containing vermiculite suspect to be present inside masonry block walls. Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: 552 Plinguet Street** **Building Name: 552 Plinguet Street**
Location: #20 : Garage - Boiler Room **Floor: M** **Room #:** **Area (sqft): 150**
Survey Date: 2006-05-15 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Cement Product	Surface		C	Y		150			SF	V9000	Confirmed Asbestos		Confirmed Asbestos(NF)
Duct	Combustion Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Boiler	Not Insulated	No Information	NI											
Mechanical Equipment	Breeching	Fibreglass	Surface	Foil Face	C	Y						0000	Non-Asbestos		None
Mechanical Equipment	Exchanger	Fibreglass w/Parging	Surface	Canvas	B	Y		1			SF	S0007	None Detected	N.D.	None
Mechanical Equipment	Heating Water Tank	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Condensate Return	Fibreglass	Straight	Foil Face	C	Y						0000	Non-Asbestos		None
Piping	Condensate Return	Parging over Fibreglass	Fitting	Canvas	C	Y		21			EA	S0006	None Detected	N.D.	None
Piping	Domestic Cold Water	Fibreglass	Straight	Foil Face	C	Y						0000	Non-Asbestos		None
Piping	Domestic Cold Water	Parging over Fibreglass	Fitting	Canvas	C	Y		3			EA	V0006	None Detected	N.D.	None
Piping	Domestic Hot Water	Fibreglass	Straight	Foil Face	C	Y						0000	Non-Asbestos		None
Piping	Domestic Hot Water	Parging over Fibreglass	Fitting	Canvas	C	Y		5			EA	V0006	None Detected	N.D.	None
Piping	Heating Water Return	Fibreglass	Straight	Foil Face	C	Y						0000	Non-Asbestos		None
Piping	Heating Water Return	Parging over Fibreglass	Fitting	Canvas	C	Y		3			EA	V0006	None Detected	N.D.	None
Piping	Heating Water Supply	Fibreglass	Straight	Foil Face	C	Y						0000	Non-Asbestos		None
Piping	Heating Water Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		3			EA	V0006	None Detected	N.D.	None
Piping	Steam Supply	Aircell	Straight	Canvas	C	Y		9			LF	V0003	Chrysotile	>75%	Confirmed Asbestos(F)
Piping	Steam Supply	Parging over Fibreglass	Fitting	Canvas	C	Y		20			EA	V0006	None Detected	N.D.	None
Structure	N/A	NI	No Information	NI											
Wall	All	Mortar	Surface	Masonry	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	All	Vermiculite/concrete block walls	ALL	N/A	A	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall		Masonry	No Information	NI											

No Access during 2021 Reassessment. Asbestos containing vermiculite suspect to be present inside masonry block walls. Masonry on cinder block/brick walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: 552 Plinguet Street** **Building Name: 552 Plinguet Street**
Location: #21 : Garage - Office **Floor: M** **Room #:** **Area (sqft): 306**
Survey Date: 2006-05-15 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	Grout	C	Y		306			SF	S0008	None Detected	N.D.	None
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	N/A	A	Y		306			SF	V0000	Non-Asbestos		None
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Joist	Wood	No Information	NI											
Wall		Drywall (no compound)													
Wall	All	Drywall Compound	Surface	NI	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	All	Vermiculite/concrete block walls	ALL	Drywall (no compound)	A	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)

Asbestos containing vermiculite suspect to be present inside masonry block walls

Client: City of Winnipeg Water and Waste Dept **Site: 552 Plinguet Street** **Building Name: 552 Plinguet Street**
Location: #22 : Garage - Hallway **Floor: M** **Room #:** **Area (sqft): 40**
Survey Date: 2006-05-15 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Wood	No Information	NI											
Duct	Combustion Air	Not Insulated	No Information	NI											
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	N/A	NI	No Information	NI											
Wall	All	Vermiculite/concrete block walls	ALL	N/A	A	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall		Masonry	No Information	NI											

Asbestos containing vermiculite suspect to be present inside masonry block walls

Client: City of Winnipeg Water and Waste Dept **Site: 552 Plinguet Street** **Building Name: 552 Plinguet Street**

Location: #23 : Garage - Office (Old Computer/Training Room) **Floor: M** **Room #:** **Area (sqft): 570**

Survey Date: 2006-05-15 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	Grout	C	Y		570			SF	V0008	None Detected	N.D.	None
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Carpet	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Joist	Wood	No Information	NI											
Wall		Drywall (no compound)													
Wall	All	Drywall Compound	Surface	NI	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	All	Vermiculite/concrete block walls	ALL	Drywall (no compound)	A	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)

Asbestos containing vermiculite suspect to be present inside masonry block walls

Client: City of Winnipeg Water and Waste Dept **Site: 552 Plinguet Street** **Building Name: 552 Plinguet Street**
Location: #24 : Garage - Office **Floor: M** **Room #:** **Area (sqft): 108**
Survey Date: 2006-05-15 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling Tiles (lay-in)	Surface	Grout	C	Y		108			SF	V0008	None Detected	N.D.	None
Ceiling		Ceiling tiles (glue-on)	Surface	Grout	C	N		108			SF	S0009	None Detected	N.D.	None
Duct	Supply Air	Not Insulated	No Information	NI											
Floor		Carpet	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Joist	Wood	No Information	NI											
Wall		Drywall (no compound)													
Wall	All	Drywall Compound	Surface	NI	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	All	Vermiculite/concrete block walls	ALL	Drywall (no compound)	A	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)

Asbestos containing vermiculite suspect to be present inside masonry block walls

Client: City of Winnipeg Water and Waste Dept **Site: 552 Plinguet Street** **Building Name: 552 Plinguet Street**
Location: #25 : Garage - Women's Washroom **Floor: M** **Room #:** **Area (sqft): 40**
Survey Date: 2006-05-15 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Drywall (no compound)													
Ceiling	All	Drywall Compound	Surface	NI	C	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Duct	Exhaust	Not Insulated	No Information	NI											
Floor	All	Vinyl Sheet Flooring	Surface		A	Y		40			SF	V9500	Presumed Asbestos		Presumed Asbestos(PF)
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	N/A	NI	No Information	NI											
Wall[1]		Mortar	No Information	Ceramic Tiles								V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Drywall (no compound)													
Wall	All	Drywall Compound	Surface	NI	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	All	Vermiculite/concrete block walls	ALL	Drywall (no compound)	A	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)

Asbestos containing vermiculite suspect to be present inside masonry block walls
1 - setting compound

Client: City of Winnipeg Water and Waste Dept **Site: 552 Plinguet Street** **Building Name: 552 Plinguet Street**
Location: #26 : Garage - Closet **Floor: M** **Room #:** **Area (sqft): 25**
Survey Date: 2006-05-15 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Drywall (no compound)													
Ceiling	All	Drywall Compound	Surface	NI	C	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Duct	Not Found	NI	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	Grout	A	Y		25			SF	V0011	Chrysotile	25-50%	Confirmed Asbestos(PF)
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	N/A	NI	No Information	NI											
Wall		Drywall (no compound)													
Wall	All	Drywall Compound	Surface	NI	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	All	Vermiculite/concrete block walls	ALL	Drywall (no compound)	A	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)

Asbestos containing vermiculite suspect to be present inside masonry block walls

Client: City of Winnipeg Water and Waste Dept **Site: 552 Plinguet Street** **Building Name: 552 Plinguet Street**
Location: #27 : Garage - Men's Locker Room **Floor: M** **Room #:** **Area (sqft): 864**
Survey Date: 2006-05-15 **Last Re-Assessment: 2021-06-29**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Cement Product	Surface	Ceiling Tiles (lay-in)	C	N		274			SF	V9000	Confirmed Asbestos		Confirmed Asbestos(NF)
Ceiling		Ceiling Tiles (lay-in)	Surface	Grout	C	Y		512			SF	V0001	None Detected	N.D.	None
Ceiling		Ceiling Tiles (lay-in)	Surface	Grout	C	Y		128			SF	V0002	None Detected	N.D.	None
Ceiling		Ceiling Tiles (lay-in)	Surface	Grout	C	Y		224			SF	V0008	None Detected	N.D.	None
Duct	Not Found	NI	No Information	NI											
Floor		Vinyl Sheet Flooring	Surface	Grout	A	Y		864			SF	S0011	Chrysotile	25-50%	Confirmed Asbestos(PF)
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Debris	Abated Material	Surface	N/A	C	Y					SF	V9000	[None]		[Abated]
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Joist	Wood	No Information	NI											
Wall		Drywall Compound	Surface	NI	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Drywall (no compound)													
Wall	All	Vermiculite/concrete block walls	ALL	N/A	A	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall		Masonry	No Information	NI											

Asbestos containing vermiculite suspect to be present inside masonry block walls.

Client: City of Winnipeg Water and Waste Dept **Site: 552 Plinguet Street** **Building Name: 552 Plinguet Street**
Location: #28 : Garage - Hallway **Floor: M** **Room #:** **Area (sqft): 230**
Survey Date: 2006-05-15 **Last Re-Assessment: 2021-06-29**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Cement Product	Surface	Ceiling Tiles (lay-in)	C	N		225			SF	V9000	Confirmed Asbestos		Confirmed Asbestos(NF)
Ceiling		Ceiling Tiles (lay-in)	Surface	Grout	C	Y		80			%	V0001	None Detected	N.D.	None
Ceiling		Ceiling Tiles (lay-in)	Surface	Grout	C	Y		20			%	V0002	None Detected	N.D.	None
Duct	Not Found	NI	No Information	NI											
Floor		Abated Material	Surface	Grout	A	Y					SF	V9000	[None]		[Abated]
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Debris	Abated Material	Surface	N/A	C	N					SF	V9000	[None]		[Abated]
Other	Not Found	NI	No Information	NI											
Piping	All	Fibreglass	Surface	Floor Levelling Compound	C	Y									
Structure	N/A	NI	No Information	NI											
Wall		Drywall Compound	Surface	NI	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Drywall (no compound)													
Wall	All	Vermiculite/concrete block walls	ALL	NI	A	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall		Cement Product	Surface	Drywall (no compound)	A	N		176			SF	V9000	Confirmed Asbestos		Confirmed Asbestos(NF)

Asbestos containing vermiculite suspect to be present inside masonry block walls. All Vinyl floor tiles were already abated in 2017.

Client: City of Winnipeg Water and Waste Dept **Site: 552 Plinguet Street** **Building Name: 552 Plinguet Street**

Location: #29 : Garage - Men's Shower/Washroom **Floor: M** **Room #:** **Area (sqft): 96**

Survey Date: 2006-05-15 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Plaster	Surface	N/A	C	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(PF)
Duct	Not Found	NI	No Information	NI											
Floor	All	Mortar	Surface	Ceramic Tiles	A	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Floor		Ceramic Tiles	No Information	NI											
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	N/A	NI	No Information	NI											
Wall		Drywall Compound	Surface	NI	C	Y		100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Mortar	No Information	Ceramic Tiles				100			%	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall		Drywall (no compound)													
Wall	All	Vermiculite/concrete block walls	ALL	Drywall (no compound)	A	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)

Asbestos containing vermiculite suspect to be present inside masonry block walls. Setting compound on ceramic floor tiles is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: 552 Plinguet Street** **Building Name: 552 Plinguet Street**
Location: #30 : Garage - Vestibule **Floor: M** **Room #:** **Area (sqft): 20**
Survey Date: 2006-05-15 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling		Ceiling tiles (glue-on)	Surface	Grout	C	Y		20			SF	V0009	None Detected	N.D.	None
Duct	Not Found	NI	No Information	NI											
Floor		Abated Material	Surface	Grout	A	Y					SF	V9000	[None]		[Abated]
Mechanical Equipment	Not Found	NI	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Joist	Wood	No Information	NI											
Wall	All	Vermiculite/concrete block walls	ALL	NI	A	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall		Wood	No Information	NI											

Asbestos containing vermiculite suspect to be present inside masonry block walls

Client: City of Winnipeg Water and Waste Dept **Site: 552 Plinguet Street** **Building Name: 552 Plinguet Street**
Location: #31 : Sewer Garage - Storage **Floor: 2** **Room #:** **Area (sqft): 4200**
Survey Date: 2006-05-15 **Last Re-Assessment: 2021-06-29**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Ceiling	Not Found	NI	No Information	NI											
Duct	Supply Air	Fibreglass	Surface	Floor Levelling Compound	C	Y									
Floor		Concrete (poured)	No Information	NI											
Mechanical Equipment	Air Handling Unit	Not Insulated	No Information	NI											
Other	Not Found	NI	No Information	NI											
Piping	Not Found	NI	No Information	NI											
Structure	Beam	Metal	No Information	NI											
Wall	All	Vermiculite/concrete block walls	ALL	Wood	A	N		100			%	V9500	Presumed Asbestos		Presumed Asbestos(F)
Wall		Wood	No Information	NI											

Asbestos containing vermiculite suspect to be present inside masonry block walls

Client: City of Winnipeg Water and Waste Dept **Site: 552 Plinguet Street** **Building Name: 552 Plinguet Street**
Location: #32 : Sewer Garage Building Exterior **Floor: NA** **Room #:** **Area (sqft): 0**
Survey Date: 2006-05-15 **Last Re-Assessment: 2021-06-29**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Wall	All	Mortar	Not Applicable	Masonry	A	Y		6000			SF	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	All	Vermiculite	Insulation	Masonry	A	N		6000				V9500	Presumed Asbestos		Presumed Asbestos(F)

Masonry walls suspect to contain asbestos containing vermiculite roofs needs to be tested prior to any renovation or demolition activities. Mortar on cinder block walls is presumed asbestos containing.

Client: City of Winnipeg Water and Waste Dept **Site: 552 Plinguet Street** **Building Name: 552 Plinguet Street**
Location: #33 : Garage Building Exterior **Floor: NA** **Room #:** **Area (sqft): 0**
Survey Date: 2006-05-15 **Last Re-Assessment: 2021-06-29**

ASBESTOS														
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard
Wall	All	Steel	Not Applicable	Paint	A	Y		5000			SF				
Wall	All	Mortar	Not Applicable	Masonry	A	N		5000			SF	V9500	Presumed Asbestos		Presumed Asbestos(NF)
Wall	All	Vermiculite	Not Applicable	Masonry	A	N		5000			SF	V9500	Presumed Asbestos		Presumed Asbestos(F)

Masonry walls suspect to contain asbestos containing vermiculite roofs needs to be tested prior to any renovation or demolition activities.

Legend:

Sample number	
S####	Asbestos sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non-asbestos material
V9000	Visually identified as an asbestos material
V9500	Material is presumed to be an asbestos material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material