PROJECT MANUAL SPECIFICATIONS

Volume 1 of 3
Project Number: 23-006

Sherwood Library Renovations

VOLUME 1

London Public Library

1225 Wonderland Rd N,

London, Ontario, N6G 2V9

matter
architectural studio

300-1108 Dundas Street
London, Ontario, N5W 3A7

September 2024

LONDON PUBLIC LIBRARY

Sherwood Library Renovation

Request for Tender 24-01

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Appendix A: Notification and Acknowledgement of Designated Substance Form (1 page).

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END OF SECTION

1.0 OVERALL SCHEDULE

1.1 Work shall commence within seven (7) days after the successful Bidder has received written confirmation that the contract has been signed by the London Public Library.

1.2 The Work shall be substantially completed by April 31, 2025, as certified by the consultant.

END OF SECTION

The Canadian Standard Construction Document CCDC2 – 2020, for Stipulated Price Contract consisting of the Agreement between Owner and Contractor, Definitions and General Conditions, parts GC-1 to GC-13 inclusive, and the Supplementary General Conditions form part of the Contract Documents.

The following Supplementary General Conditions shall be read in conjunction with the General Conditions of the Contract contained in the Canadian Standard Construction Document CCDC2 – 2020 .

AMENDMENTS TO AGREEMENT BETWEEN OWNER AND CONTRACTOR

ARTICLE A-4 CONTRACT PRICE

1. Insert the number "13" into the blank in paragraph 4.2.

ARTICLE A-5 PAYMENT

Amend paragraph 5.1 to read:

Subject to applicable legislation and the provisions of the Contract Documents, and in accordance with legislation and statutory regulations respecting holdback percentages and, where such legislation or regulations do not exist or apply, subject to a holdback of ten percent (10%), the Owner shall in Canadian funds:

Delete 5.2.1 and substitute the following:

.1 Should either party fail to make payments as they become due under the terms of the Contract or in an award by arbitration or court, interest at zero percent (0%) per annum above the bank rate on such unpaid amounts shall also become due and payable until payment. Such interest shall be compounded on a monthly basis. The bank rate shall be the rate established by the Bank of Canada as the minimum rate at which the Bank of Canada makes short term advances to the chartered banks.

Add paragraph 5.3 Payment Withheld as follows:

Subject to the provisions of the *Payment Legislation*, the Consultant may withhold or nullify in whole or in part any application for payment represented by the Contractor's estimate or any Certificate for Payment to such extent as may be necessary to protect the owner from loss because of:

.1 Defective work not remedied.
.2 Claims filed or reasonable evidence indicating probable filing of claims.
.3 Failure of Contractor to make payment properly to Subcontractors or suppliers for materials and/or labour.
.4 Reasonable doubt that the contract can be completed, and all unpaid claims, charges, liens and encumbrances satisfied, for balance then unpaid.
.5 Damage to the work of another Contractor.

.6 Erroneous or inflated estimates by the Contractor of value of work performed.
.7 Unauthorized deviations by Contractor from Contract Documents.
.8 Unsatisfactory progress of project work by Contractor.
.9 Record drawings not current and up-to-date with changes.
.10 Legal costs related to lien action.

AMENDMENTS TO GENERAL CONDITIONS

GC 1.1 CONTRACT DOCUMENTS

Amend paragraph 1.1.9 by adding the following:

"The Contractor is solely responsible for the coordination of Subcontractors. The contractor is solely responsible for the division and definition of work between Contractor and Subcontractor and for any jurisdictional matters arising therefrom."

Amend paragraph 1.1.5.3 by deleting the following:

"over dimensions scaled from drawings."

Add paragraph 1.1.12 as follows:

Whenever the words "approved", "as directed", "submit", "make good", "inspected" or similar wording or phrases appear throughout the Contract Documents, they shall be understood, unless otherwise provided, to mean: materials or items referred to shall be "approved by the Consultant", "submit to the Consultant", "make good to the Consultant's satisfaction", or, "inspected by the Consultant".

GC 2.2 ROLE OF CONSULTANT

Revise paragraph 2.2.6 by deleting the following:

"except with respect to GC 5.1 - Financing Information Required of the Owner".

Add paragraph 2.2.19:

"The Consultant, at the Owner's request, will participate at any negotiation, mediation or arbitration as provided in Part 8 DISPUTE RESOLUTION".

GC 2.4 DEFECTIVE WORK

Add the following to paragraph 2.4.1

"Defective work shall be replaced or re-executed at the Contractor's expense."

GC 3.2 CONSTRUCTION BY OWNER OR OTHER CONTRACTOR

Delete paragraph 3.2.2 in its entirety.
Revise paragraph 2.2.5 by deleting the following:

> "In the absence of *Other Contractors* having reciprocal obligations, disbutes and other matters in question initiated by the *Contractor* against *Other Contractors* will be considered disputes and other matters in question between the *Contractor* and the *Owner.*"

Delete paragraph 3.2.6 in its entirety

Add the following paragraphs:

3.2.7 Entry by the Owner's own forces and by other contractors does not imply acceptance of the Work and does not relieve the Contractor's responsibility to complete the Work.

3.2.8 Placing, installation, application and connection of work by Owner's forces or by other contractors on and to the work shall not relieve the Contractor's responsibility to provide and maintain the specified warranties.

GC 3.3 TEMPORARY WORK

Supplement paragraph 3.3.2 by adding the following:

> ...professional engineering personnel ", registered in the Province of Ontario," skilled...

GC 3.5 SUPERVISION

Revise paragraph 3.5.1 by adding the following:

> … shall not be changed "without the Owner's prior agreement and" except for valid reason.

GC 4.1 CASH ALLOWANCE

Add new paragraph as follows:

4.1.8 "Allowances are further specified in Section 01020 of the Specifications".

GC 5.1 FINANCING INFORMATION REQUIRED OF THE OWNER

Delete this General Condition in its entirety.

GC 5.2 APPLICATIONS FOR PROGRESS PAYMENT

Add to paragraph 5.2.1 as follows:

"The Contractor shall submit a "proper invoice" for payment"

Delete 5.2.7 and replace with new paragraph 5.2.7 as follows:

GC 5.2.7 "The Contractor shall submit with the second and all subsequent applications, a statutory declaration, using CCDC Form 9A or 9B as applicable or appropriate. The Contractor shall submit with all applications, a current certificate of clearance from the Workplace Safety & Insurance Board which indicates that the Contractor is in compliance."

Add new paragraph 5.2.9 as follows:

GC 5.2.9 At the time of execution of the Contract and prior to receiving payment for substantial and total performance of the work, the Contractor shall submit a Declaration stating that he has paid all assessments or compensations payable and has otherwise complied with all the requirements of the Workplace Safety and Insurance Board and that the Contractor has paid all taxes and/or penalties imposed on it by the Corporation Tax Act of the Province of Ontario. The sworn statement shall be on the Form annexed to this Section as identified as Workers' Compensation Declaration – Corporation Tax Act.

Add new paragraph 5.2.10 as follows:

GC 5.2.10 A proper invoice shall include all requirements of the Construction Act Section 6.1 and the London Public Library Requirements as follows:

- Tender schedule of values showing cost to date, cost this invoice, percentage complete etc..
- Claims for extras which are supported by a Change Order issued by the Consultant
- Tailgate meeting minutes

- Certificate of Clearance from the Workplace Safety and Insurance Board - every payment
- Statutory declaration re: Liens and Payment of Accounts – 2nd payment and all subsequent payments
- Workers Compensation Declaration - Corporation Tax Act WCD-1 - Substantial Completion and Final Payment Only
- A copy of the construction trade newspaper in which the Certificate of Substantial Performance or Declaration of Substantial Performance under section 32 of the Act was published. – Release of Holdback only.
- Updated construction schedule – every payment

GC 5.4 SUBSTANTIAL PERFORMANCE OF THE WORK AND PAYMENT OF HOLDBACK

Add to 5.4.4 :

and GC 5.2 – APPLICATIONS FOR PAYMENT

Delete paragraph 5.4.2 in its entirety.

GC 5.7 FINAL PAYMENT

In 5.5.4, change 5 days to 28 days.

GC 6.2 CHANGE ORDER

Add Paragraph 6.2.3:

The following fee percentage and overhead charges shall be applied to additional work ordered by the Consultant.

1. For those items understood to be directly part of the Contractor's work, the Contractor will be permitted to charge a maximum of 5% overhead plus a maximum 5% fee.

2. On items involving changes to work of a Subcontractor the Contractor may charge a 5% fee. Overhead shall not be charged on extras or credits applying to Subcontractors' work by the General Contractor.

3. Subcontractors may charge a maximum of 5% overhead plus a maximum of 5% fee on work to be provided by their own forces. They may charge only 5% fee on work of other subcontractors under their direct jurisdiction.

4. Overhead shall include all costs of:

.1 Operating head office and site facilities.
.2 Head office and site personnel.
.3 Custom duties, basic permits and other licenses required by jurisdictional authorities.
.4 Bonding.
.5 Insurance.
.6 Calculations, inspections testing.
.7 Deliveries, travelling, out-of-town accommodations.
.8 Hand and small power tools required for the efficient completion of the Work.
.9 Costs related for the preparation of documentation/responses to changes and contemplated changes.

GC 6.3 CHANGE DIRECTIVE

Add .4 to 6.3.6

.4 The percentage fees are to be calculated in accordance with Paragraph 6.2.3.

GC 6.5 DELAYS

Delete paragraphs 6.5.2 and 6.5.3 in their entirety.

Add new paragraph 6.5.2

"6.5.2 If the Contractor is delayed in the performance of the Work by:

.1 a stop work order issued by a court or other public authority
.2 labour disputes, strikes, lock-outs (including lock-outs decreed or recommended for its members by a recognized contractors' association, of which the Contractor is a member or to which the Contractor is otherwise bound),
.3 fire, unusual delay by common carriers or unavoidable casualties,
.4 abnormally adverse weather conditions, or
.5 any cause beyond the Contractor's control other than one resulting from a default or breach of Contract by the Contractor,

and providing that such order and/or delay was not the result of an act or fault of the Contractor or any person employed or engaged by the Contractor directly or indirectly, then the Contract Time shall be extended for such reasonable time as the Consultant may recommend in consultation with the Contractor. The extension of time shall not be less than the time lost as the result of the event causing the delay, unless the Contractor agrees to a shorter extension. The Contractor shall not be entitled to payment for costs incurred by such delays unless such delays result from actions by the Owner, Consultant or anyone employed or engaged by them directly or indirectly."

Add paragraph 6.5.6:

In general, normal seasonal weather conditions for the local climate for the construction period implied in the bid documents will not be considered as reason for extension of the contract time. Such normal seasonal conditions include normal amounts of bad weather including rain, snow, winds and heat and cold conditions. The Contractor shall allow in the project scheduling and costing for these normal seasonal weather conditions.

Add paragraph 6.5.7:

The work shall not be commenced, nor shall any material be purchased, until the Contractor has signed the contract, and the Contractor has received written confirmation from the Consultant that the Corporation has signed the contract. Work shall commence within seven (7) days of written confirmation and be continuously carried on to completion. The work shall be completed and full possession thereof given the Owner within the period provided below, counting from the date of notification to commence, unless an extension of time, in writing, shall be allowed by the Consultant. In which case, it will be carried on to completion and possession given to the Owner within the additional period so allowed.

If ordered by the Consultant, the Contractor and their employees shall be required to work continuously through the twenty-four (24) hours of the day for six (6) days per week in the performance of the work under this Contract.

All work included in the Contract shall be completed by the Contractor within the time of completion, stated in section 00 21 00 Project Time Schedule.

If the Contractor fails to complete the work in accordance with the Contract and to the satisfaction of the Consultant within the time or times specified, the contractor shall pay the additional costs incurred by the Owner for the Consultant's fees and disbursements until the completion of the work in addition to $1000.00 (One Thousand Dollars) for each and every working day that the work remains unfinished after the time specified. The amount is the Liquidated Damages the Owner will suffer by reason of a delay and not as a penalty. Other than Liquidated Damages, the Contractor shall not be responsible for any other costs that the Owner may incur as a result of a delay in completing the work within the time specified.

Notwithstanding the time allowed for completion, should the rate of progress of construction be unsatisfactory or should unnecessary interruption occur in the continuous prosecution of the work, in the opinion of the Consultant, the full amount of Inspector's wages and the cost of other supervisions shall, for such period of unsatisfactory progress, be deducted from any monies due the Contractor under the contract.

GC 7.1 OWNER'S RIGHT TO PERFORM THE WORK, TERMINATE THE CONTRACTOR'S RIGHT TO CONTINUE WITH THE WORK OR TERMINATE THE CONTRACT

Revise paragraph 7.1.2 as follows:

Delete "to a substantial degree" from the sentence.

GC 7.2 CONTRACTOR'S RIGHT TO SUSPEND THE WORK OR TERMINATE THE CONTRACT

Delete paragraph 7.2.2 in its entirety

Revise paragraph 7.2.3 as follows:

.1 Delete sentence .1 in its entirety.

.4 Delete ", except for GC 5.1 - Financing Information Required of the Owner,".

GC 8.1 AUTHORITY OF THE CONSULTANT

.1 Revise paragraph 8.1.3 as follows:

.1 Insert the word "written" before the word "instructions" in the first sentence.

.2 Change "immediately" to "within 5 Working Days".

GC 8.3 NEGOTIATION, MEDIATION, AND ARBITRATION

.1 Add the following clauses:

"8.3.9 Within five (5) working days of receipt of the Notice in Writing by the responding party under paragraph 8.3.6, the Owner and the Contractor shall give to the Consultant a written notice containing:
a) a copy of the Notice in Writing
b) a copy of supplementary conditions 8.3.9 to 8.3.15 of this Contract, and;
c) any claims or issues which the Contractor or the Owner, as the case may be, wishes to raise in relation to the Consultant arising out of the issues in dispute in the arbitration.

8.3.10 The Owner and the Contractor agree that the Consultant may elect, within ten (10) days of receipt of the notice under paragraph 8.3.9, to become a full party to the arbitration under paragraph 8.2.6 if the Consultant:
a) has a vested or contingent financial interest in the outcome of the arbitration;
b) give the notice of election to the Owner and the Contractor before the arbitrator is appointed;
c) agrees to be a party to the arbitration within the meaning of the rules referred to in paragraph 8.3.6 and,

d) agrees to be bound by the arbitral award made in the arbitration.

8.3.11 If the Consultant is not given the written notice required under paragraph 8.3.9, both the Owner and the Contractor are stopped from pursuing an action, counter claim or other proceeding or making an application against the Consultant arising out of the issues in dispute in the arbitration between the Owner and the Contractor under paragraph 8.3.6.

8.3.12 If an election is made under paragraph 8.3.10, the Consultant may participate in the appointment of the arbitrator, and notwithstanding the rules referred to in paragraph 8.3.6, the time period for reaching agreement on the appointment of the arbitrator shall begin to run from the date the Owner issues or receives a copy of the notice of arbitration.

8.3.13 The arbitrator in arbitration in which the Consultant has elected under paragraph 8.3.10 to become a full party may:

a) on application of the Owner or the Contractor, determine whether the Consultant has satisfied the requirements of paragraph 8.3.10, and;

b) make any procedural order considered necessary to facilitate the addition of the Consultant as a party to the arbitration.

8.3.14 The provisions of paragraph 8.3.9 shall apply mutatis mutandis to written notice to be given by the Consultant to any sub consultant.

8.3.15 In the event of notice of arbitration given by a Consultant to a sub consultant, the sub consultant is not entitled to any election with respect to the proceeding as outlined in 8.3.10, and is deemed to be bound by the arbitration proceeding."

GC9.1 PROTECTION OF PERSONS AND PROPERTY

.1 Add the following paragraph:

9.1.5 The Contractor shall protect the Work and the Owner's and Contractor's property and property adjacent to the Place of the Work from damage which may result from or be caused by any natural events including, but not limited to, flooding or severe weather and the Contractor shall be responsible for such damage.

GC 9.2 TOXIC AND HAZARDOUS SUBSTANCES

.1 Revise paragraph 9.2.2. as follows:

.1 Change “toxic or hazardous” to “toxic, hazardous or designated”.

Add the following sentence:

.3 "Toxic, hazardous and designated substances or materials are deemed to be those as listed under the most current edition of the Occupational Health and Safety Act."

.2 Revise paragraph 9.2.3 by changing “toxic or hazardous” to “toxic, hazardous or designated”.

.3 Revise paragraph 9.2.4 by changing “toxic or hazardous” to “toxic, hazardous or designated” .

.4 Revise paragraph 9.2.5 as follows:

.1 Change “toxic or hazardous” to “toxic, hazardous or designated” in sentences .1, .2 and .3

.5 Revise paragraph 9.2.6 as follows:

.1 Change “toxic or hazardous” to “toxic, hazardous or designated”

.6 Revise paragraph 9.2.7 as follows:

.1 Change “toxic or hazardous” to “toxic, hazardous or designated”.

.7 Revise paragraph 9.2.8 as follows:

.1 Change “toxic or hazardous” to “toxic, hazardous or designated”.

.2 Change “toxic or hazardous” to “toxic, hazardous or designated” in 9.2.8.1.

.8 Add a new paragraph as follows:

"9.2.10 Where the written list required under paragraph 9.2.2 is made available to the Contractor, the Contractor shall indemnify and hold harmless the Owner, the Consultant, their agents and employees, from and against claims, suits, or proceedings arising out of or resulting from exposure to, or the presence of, toxic, hazardous or designated substances or materials which were at the Place of Work prior to the Contractor commencing Work."

GC 9.4 CONSTRUCTION SAFETY

Delete 9.4.1, 9.4.2, 9.4.3, 9.4.4 and 9.4.5 in their entirety

Add new paragraph 9.4.6 as follows

9.4.6 The *Contractor* shall be solely responsible for construction safety at the *Place of Work* and for compliance with rules, regulations and practices required by the applicable construction health and safety legislation and shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the performance of the *Work*.

GC 10.1 TAXES AND DUTIES

Add paragraph 10.1.3:

Where the Owner is entitled to any exemptions or rebates of sales taxes, value added taxes or customs duties, the Contractor shall submit to the Owner full particulars of all taxes and/or duties paid, to facilitate application by the Owner for such refunds for their own use.

GC 10.2 LAWS, NOTICES, PERMITS AND FEES

Delete paragraph 10.2.2 in its entirety and substitute with the following:

10.2.2 The Owner shall obtain and pay for the building permit, the development permit, permanent easements, and rights of servitude. The Contractor shall obtain and pay for all other permits, licenses, or certificates necessary for the performance of the Work and which relate to the work which were in force at the date of the bid closing.

Revise paragraph 10.2.6 as follows:

Delete "knowing it to be" from the sentence.

GC 10.4 WORKER'S COMPENSATION

Add new paragraph 10.4.2:

At any time during the term of the *Contract*, when requested by the *Owner*, the *Contractor* shall provide such evidence of compliance by the *Contractor* and *Subcontractors.*

GC 11.1 INSURANCE

Add new paragraph 11.1.1.9:

London Public Library construction projects with a total tender price, excluding taxes, greater than $3 (three) million requires insurance in accordance with the London Construction Insurance Program (LCIP) attached at the end of this section.

The Contractor shall provide, maintain, and pay for LCIP Insurance. The coverage and extensions noted are the MINIMUM requirements for project meeting LCIP criteria as stipulated by the London Public Library. It is the responsibility of the contractor and/or their insurance broker to review all potential operations and exposures to determine if the coverage and limits noted are sufficient to address all insurance related exposures presented by the specifications of the project.

Add new paragraph 11.1.1.10:

The general contractor is to include Builders Risk Insurance in the amount of the total tender price, excluding taxes.

GC 12.1 READY-TO-TAKEOVER

Delete 12.1.2 in its entirety and substitute with the following:

12.1.2 Any of the prerequisites to attaining Ready-for-Takeover set forth in paragraphs 12.1.1.3 to 12.1.1.6 may be waived by the Owner, in writing, if requested by the Contractor. The Owner reserves the sole discretion to refuse any request for waiver submitted by the Contractor.

GC 12.3 WARRANTY

1. Delete paragraph 12.3.2 in its entirety.

2. Refer to paragraph 12.3.4. Add the word "all" after the word "expense,".

3. Add the following clauses:

12.3.7 The Contractor shall submit written warranty or guarantee certificates and extended warranty or guarantees for all work as required in the specifications. The guarantee shall be addressed to the Owner and state the following:

1. Date of Ready-for-Takeover or Total Performance as applicable to the warranty or guarantee period.

2. Name of Project to be same as indicated in the Contract.

3. Terms and Conditions.

4. Warranty or Guarantee Period.

12.3.8 1. Provide a list of all equipment, components, materials, systems, etc., for which specific warranty is required, implied, or offered at the Post Bid Meeting for discussion.

2. Warranty is generally for one (1) year from date of certification of Ready-for-Takeover, except as otherwise specified.

Compressor warranty shall be not less than five (5) years.

4. Elevators shall include a service agreement for six (6) months from Ready-for-Takeover; after which time the Owner will service the elevator under the direction of the Contractor for the remainder of the warranty period. The Owner will then assume full service.

5. The list above is to include the names and telephone/fax/email address of the contracts for warranty service calls. All items regardless of origin of supply must be serviceable for warranty by service contractors in London, Ontario unless otherwise approved by the Owner.

6. Include the list in Operating and Maintenance Manuals.

12.3.9 Use of the building systems during construction for temporary heat shall not have any effect on the warranty period of those systems and equipment in use. The warranty period will not begin until Ready-for-Takeover has been attained.

GC 13.1 INDEMNIFICATION

1. Delete 13.1.1 and replace with the following:

"13.1.1 The Contractor agrees that it shall indemnify and save harmless the Owner and the Consultant, their agents and employees of and from all loss, costs, charges and expenses of every nature and kind whatsoever, including reasonable legal fees, which the Owner or Consultant may incur, be put to or have to pay, by reason of or on account of the Contractor's performance of the Contract or any part of such work whether performed by the Contractor or by its employees, servants, agents, subcontractors or others the Contractor is responsible for at law."

2. Delete paragraph 13.1.2.

GC 13.2 WAIVER OF CLAIMS

Revise 13.2.7 as follows:

Change “notice of claim” to “Notice of writing of claim”.

The following Supplementary General Conditions shall be read in conjunction with the CCDC41 ‘ CCDC Insurance Requirements – December 14, 2020 .

Revise 1. as follows:

1 Change $10,000 to $5,000

Revise 2. as follows:

1 Change $10,000,000 to $5,000,000

Revise 3. as follows:

1 Change $10,000,000 to $5,000,000

Revise 5. as follows:

1 Change $10,000 to $5,000

The following Supplementary General Conditions shall be read in conjunction with OPSS 180

180 General Specification for the Management of Excess Material

180.04 Design and Submission Requirements

180.04.01.01 Notification of Site Selection and Property Owner Release

Clause 180.04.01.01 is amended by the addition of the following paragraphs:

The Contractor is advised that certain areas of the City of London and surrounding municipalities are regulated by the Conservation Authorities including the Upper Tham es River Conservation Authority, Lower Thames Valley Conservation Authority and the Kettle Creek Conservation Authority. The placement of fill material in certain areas may not be acceptable or in accordance with Section 28 of the Conservation Authorities Act. The Contractor shall be required to provide evidence to the Contract Administrator of approvals and / or permits from the affected Conservation Authority, prior to the disposal of any fill material (including but not limited to topsoil, subsoil, concrete or dredged sediment, etc). If the Conservation Authority advises the Contractor that the site is not within a fill regulated areaor flood plain and therefore does not need an approval or a permit from the Conservation Authority, the Contractor shall provide written evidence of this to the Contract Administrator.

Should any disposal site selected by the Contractor require any approvals or permits for receiving excess material in any capacity, costs for such approvals or permits shall be paid for by the by the sub-contractor to excavate and remove the material from site.

END OF SECTION

STATUTORY DECLARATION RE: LIENS AND PAYMENT OF ACCOUNTS

(to be completed upon substantial performance of the Contract)

IN THE MATTER of a Contract, known as the Contract for the Construction of:

CANADA

PROVINCE OF _____

COUNTY OF _____

BETWEEN the LONDON PUBLIC LIBRARY and

_____

_____

_____

on____ _____ 20_____in London, Ontario

TO WITNESS:

I, _____of _____in

the Province of _____, do solemnly declare:

1. That I am _____of the
(President, Secretary, Treasurer, Partner, etc.)
Contractor named in the Contract above-mentioned and as such has personal knowledge of the facts hereunder declared.

2. That all workers employed by the said Contractor in the performance of the said Contract have been paid in full not less frequently then semi-monthly and up to and including the payday immediately preceding the date of this declaration.

3. That the said Contractor has complied with the requirements of statutes and regulation of the Province of Ontario related to the payment of wages and with the requirements of the said Contract relating to the payment of wages.

4. That, with the exception of the disputed accounts set forth in paragraph 5 hereof and amounts held back and payments deferred to by written agreement, all liabilities incurred by the said Contractor arising out of work performed up to _____ 20_____, set forth in the Monthly Estimate relating to Payment Certificate No. _____ have been discharged.

5. That the following is a complete list of disputed accounts:

Name of Creditor	Service Rendered	Total Claim ($)	Amount in Dispute ($)	Amount Paid ($)

(If there are no disputed accounts, enter “NONE” above.)

6. That all persons who have placed or furnished any material or things to be used in connection with the above Contract have been fully paid or their claims have been settled in respect of such work, service, materials or things and there are not liens, garnishes, attachments or claims relating thereto.

7. That all Subcontractors who were engaged in or in any manner associated with the performance of any part of the above Contract have been fully paid of their claims have been settled in respect thereof except to the extent that monies have been held back by written agreement with any such Subcontractors.

8. That all Subcontractors who were engaged in or in any manner associated with the performance or any part of the above Contract have discharged all liabilities which they incurred in respect thereof.

9. That all claims for damage to property or injury to persons of which the above-named Contractor has received notice have been fully paid or settled, except for the following:

Claimant	Description of Claim	Amount of Claim ($)	Amount Paid ($)

(If there are no disputed claims, enter “NONE” above)

10. That the above named Contractor has not had any notice of any grounds for a claim (other than those covered by paragraph 5 or 9 above) connected with this Contract by a third party and for which a claim might be made, except for the following:

Claimant	Description of Claim	Amount of Claim ($)	Amount Paid ($)

(If there are no disputed claims, enter “NONE” above)

AND I MAKE THIS SOLEMN DECLARATION conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath and by virtue of the "The Canada Evidence Act".

DECLARED before me at the City of _____ in the County of

_____ this _____day of _____

20_____.

WORKERS' COMPENSATION DECLARATION-CORPORATION TAX ACT (WD-1)

CANADA)
)
PROVINCE OF ONTARIO) IN THE MATTER OF the annexed Agreement made between
)
COUNTY OF MIDDLESEX)

TO WIT:) and THE LONDON PUBLIC LIBRARY
) dated the _____ day of
) _____ , 20___ in respect of
)
)

I, _____ of the City of _____in the
(name) *(city,town)*
County of _____ do solemnly declare as follows:
(county)

1. That I am _____ and as such have knowledge of the
(title, position)
matters hereinafter declared to.

2. That _____ paid all assessments or compensation
(contractor)
payable to the Workplace Safety and Insurance Board.

3. That _____ paid all taxes and/or penalties imposed
(contractor)
on it by The Corporation Tax Act of the Province of Ontario.

AND I MAKE this solemn Declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath and by virtue of The Canada Evidence Act.

DECLARED before me at the City of _____ in the County of _____,

this _____ day of _____ , 20 __.

_____ _____
A Commissioner, ETC (Insert name, position here and sign above)

LCIP Minimum Core Coverage and Extensions

Builders Risk (Broad Form coverage): ****Not required for road surfacing, sewer, watermain and paving projects**

Core Coverage: Limits as required and dedicated to specific project only

- Includes all Project Owners, Project Manager, Architects, Engineers, Contractors and Sub Contractors as Named Insured
- Property in course of construction, installation, reconstruction or repair, owned by insured or by others so long as included in value
- All risk wording subject to exclusions
- Materials and supplies entering into project including landscaping, growing trees
- Temporary structures - office trailers, scaffolding, etc. & excavation, site preparation
- Removal - 7 days (or expiry)
- Windstorm debris removal

Extensions of Coverage:	***Limits, Deductibles, Comments***
1. Offsite Storage Extension	1. $500,000 limit
2. Transit	2. $500,000 limit
3. Professional Fees	3. $100,000 limit
4. Earthquake	4. $100,000.or 3% deductible
5. Fire Fighting Expense	5. $500,000 limit
6. Flood (allow exception for transit and leakage from water main)	6. $25,000 deductible
7. Valuable Papers	7. $100,000 limit
8. Extra Expense (critical contractor equipment damage)	8. 24 hour waiting period, and $250,000 limit
9. Debris Removal *(doesn't affect coinsurance)*	9. 25% of limit
10. By-Laws *(except heritage designated properties)*	10. $500,000 limit
11. Sewer Back Up (subject to project deductible)	11. Included
12. Margin of Profit	12. Included
13. Off Premises Service Interruption *(24 hour waiting period)*	13. $500,000 limit
14. Soft Costs	14. Value must be included in project limit
15. Expediting Cost Expense	15. $500,000 limit
16. Testing and Commissioning	16. 30 day period
17. 60 Day notice of cancellation	17. (except for non-payment)
18. Delayed Start Up (***NB: limit to be set by City***)	18. **ONLY if requested** in specifications

Wrap Up Liability Coverage:

Core coverage:

- **$5 Million minimum** and dedicated to specific project only
- Includes all Project Owners, Project Manager, Architects, Engineers, Contractors and Sub Contractors as Named Insured
- Tenants Legal Liability Coverage (for locations related to the project only)
- Occurrence Basis
- Broad form property damage
- Personal Injury
- Continent Employers Liability
- Cross Liability and Severability of Interest Clause
- 60 day notice of cancellation (except in case of non-payment)
- Professional Liability ***exclusion***
- 24 month completed operations extension, including Explosion, Collapse and Underpinning
- Damage to existing structure *included*

Deductibles:

- Will vary depending on the size and complexity of the project
- Are subject to negotiation between the insurer and broker, and acceptance by the City of London, such acceptance not to unreasonably with-held.

Environmental Impairment Liability Coverage:

Contractors Pollution Liability $2,000,000 minimum requirement of the specifications of the individual project.

1.1 WORK OF THIS CONTRACT

.1 *Work* of this *Contract* comprises of furnishing all labour, materials, equipment, tools, services, supervision and all else required for the following:

The project encompasses 9,741 square feet of interior alterations to the London Public Library – Sherwood Branch, executed in three phases. Phase 1 involves the the northern portion of the work area to undergo demolition and alteration. In Phase 2, demolition and alteration of the south portion of the work area, transforming existing classrooms, offices, administrative areas, storage spaces, new reception/admin area, and converting an existing office into an new IT closet. Phase 3 includes the removal of hoarding and the preparation of corridor 127 for new finishes. The alterations will feature a welcoming service desk, new flooring, paint, and finishes throughout the space. Additionally, new programming, study, and meeting rooms, along with an interactive children's area, will be created. The back-of-house area for staff will be upgraded, complemented by the installation of new exterior windows, interior glazing, and folding glass entry doors.

.2 Municipal Address: 1225 Wonderland Rd N Unit 32

.3 Site of Work: Visit and examine the site and become familiar with all features and characteristics affecting the work of the Contract. No allowance will be made by the Owner for any difficulties encountered due to any features or peculiarities of the site or surrounding public or private property which exist at the time of Tender submission

1.2 DIVISION OF WORK

.1 Division of the *Work* among *Subcontractors* and *Suppliers* is solely *Contractor*'s responsibility. *Consultant* and *Owner* assume no responsibility to act as an arbiter to establish subcontract limits between Sections or Divisions of the *Work*.

1.3 SPECIFICATIONS LANGUAGE AND STYLE

.1 These specifications are written in the imperative mood and in streamlined form. The imperative language is directed to *Contractor*, unless stated otherwise.

.2 Complete sentences by reading "shall", " *Contractor* shall", "shall be", and similar phrases by inference. Where a colon (:) is used within sentences and phrases, read the words "shall be" by inference.

.3 Fulfill and perform all indicated requirements whether stated imperatively or otherwise.

.4 When used in the context of a *Product*, read the word "provide" to mean "supply and install to result in a complete installation ready for its intended use".

.5 These specifications are not intended as a detailed description of installation methods but to serve to indicate particular requirements in the completed work.

.6 Parts of the specification are written in short form. Therefore, it is understood that where a component of the work is stated in a heading following by a material or operation, the words "shall be", "shall consists of" or similar words or phrases are implied, which denote complete supply and installation of such materials or operations for the component of work designated by the heading.

.7 Where codes or standards of this specification do not provide all information necessary for complete installation of an item, then strictly comply with the manufacturer's instruction for first quality workmanship. In cases of discrepancies consult the Consultant for clarification.

.8 Where words in the Contract Documents occur in the singular number, they shall be taken as plural where applicable in accordance with the quantities required to satisfy the requirements of the Contract.

.9 In the trade Sections of the specification, unless the word "only" suffixes the words "supply" or "install" or other variations of those words, it is the express intent of this Contract that "supply and install" is implied. Words such as "provide" or "work includes" shall also mean "supply and install".

1.4 CONTRACT DOCUMENTS FOR CONTRUCTION PURPOSES

.1 *Owner/Consultant* will supply *Contractor* with a complete set of *Contract Documents* in electronic form before commencement of the *Work*. *Contractor* may print hard copies for construction purposes as required.

1.5 DOCUMENTS AT THE SITE

.1 Keep the following documents at *Place of the Work*, stored securely and in good order and available to *Owner* and *Consultant* in hard copy and electronic form:

.1 Current *Contract Documents*, including *Drawings*, *Specifications* and addenda.

.2 *Change Orders*, *Change Directives*, and *Supplementary Instructions*.

.3 Reviewed *Shop Drawings*, *Product* data and samples.

.4 Field test reports and records.

.5 Construction progress schedule.

.6 Meeting minutes.

.7 Manufacturer's certifications.

.8 Permits, inspection certificates, and other documents required by authorities having jurisdiction.

.9 Current as-built drawings.

.10 Material Safety Data Sheets (MSDS) for all controlled *Products*.

.11 Notice of Project.

.12 Contractor's Health and Safety Policy

.13 Emergency Procedures

.14 Minutes of Health and Safety meetings

1.6 CONTRACTOR'S USE OF PREMISES

.1 Except as otherwise specified, *Contractor* has unrestricted use of *Place of the Work* from time of *Contract* award until *Ready-for-Takeover*.

.2 Confine *Construction Equipment*, *Temporary Work*, storage of *Products*, waste products and debris, and all other construction operations to limits required by laws, ordinances, permits, and *Contract Documents*, whichever is most restrictive. Do not unreasonably encumber *Place of the Work*.

END OF SECTION

1.1 RESTRICTIONS ON USE OF PREMISES

.1 Limit use of premises for *Work*, for storage, and for access, to allow;

.1 *Owner* occupancy.
.2 Partial *Owner* occupancy.
.3 Public usage.

.2 Coordinate use of premises under direction of *Owner*.

1.2 WORK SEQUENCE

.1 Schedule and construct *Work* in stages to accommodate *Owner'*s use of premises during construction.

.2 Required stages (Refer to Demolition & Construction Phasing Plans):

.1 Stage 1: Demolition/alteration of main library area. During this phase the library will provide public and staff usage exclusively to the southern facilities (Ex Storage 107, Ex Office 109, EX110, Ex Classroom 111, Ex Women's Washroom 113, Ex Men's Washroom 114).

.2 Stage 2: Demolition/alteration of existing Classroom 111, Offices 109 & 110, Admin 108 and storage 107, and new reception/admin area. New wall paint and wall base to be added to existing room 127F. Demolition/alterations to men's and women's existing washrooms. During this phase the library will not provide continuous public usage. Southern facilities will not be available to staff during this phase.

.3 Stage 3: Removal of hoarding and existing flooring in new Corridor 127, to receive new finishes. During this phase the library will provide continuous public usage. New admin and library space is open to staff.

1.3 PARTIAL OWNER OCCUPANCY

.1 Schedule designated portions of *Work* for *Owner*'s use prior to *Substantial Performance of the Work*.

.2 Designated Areas open to staff during Construction:

.1 Refer to 1.2.2.1.

.3 *Owner* will occupy designated areas for purpose of staff usage, storage of furnishings and equipment.

1.4 RESTRICTED HOURS OF WORK IN OCCUPIED FACILITIES

.1 No restrictions.

.2 Allow for hours of work restrictions in construction progress schedule.

1.5 NOISY WORK RESTRICTIONS IN OCCUPIED FACILITIES

.1 Schedule excessively noisy work to avoid disturbance to building occupants.

.2 Perform excessive noise generating work outside of *Owner*'s business hours.

1.6 MAINTAINING LIFE SAFETY SYSTEMS IN OCCUPIED FACILITIES

.1 Maintain operational life safety systems and public access to exits in occupied areas during all stages of the *Work*.

.2 Determine nature and exact locations of existing fire and smoke sensors prior to the commencement of the *Work*. Avoid direct or indirect jarring while working in adjacent areas and exercise caution to avoid triggering these devices.

.3 Be responsible for costs incurred by *Owner* on account of false fire alarms activated as a result of the execution of the *Work* without adequate precautions.

END OF SECTION

1.1 PROCEDURE

.1 The express intent of this Specification is that all Cash Allowances shall be carried by the Contractor, not by individual subcontractors. The Contractor shall read the entire Specification prior to bidding and shall include in their Tender all Cash Allowances called for in this or any Section of the Specification. If allowances specified herein are repeated in Trade Sections, or if allowances are specified in Trade Sections but not listed in this Section, Bidders are requested to inform the Consultant immediately in order that an Addendum may be issued to implement the express intent that all Cash Allowances shall be carried by the Contractor.

.2 No expenditure against Cash Allowances shall be made or incurred except as instructed by the Consultant in writing.

.3 The amounts listed are deemed to be all inclusive but not to include Value Added Taxes (H.S.T.)

.4 The Owner reserves the right to call, or to have the Contractor call for competitive bids for portions of the work being paid from the cash allowances.

.5 At the commencement of the work, the Contractor shall prepare for the review and acceptance of the Owner and the consultant, a schedule indicating the times with the construction schedule, that items called for under cash allowances and items that are specified to be Owner purchases and Contractor installed or hooked up are required at the site to avoid delaying the progress of work.

1.2 SPECIFIC PURPOSE CASH ALLOWANCES

.1 Include in Tender Sum the following specific Cash Allowances to be expended in whole or in part only as directed by the Consultant:

.1 Abatement Cash Allowance……..…$30,000.00
.2 Signage Cash Allowance……...…….……...…$10,500.00
.3 Wall Graphics Cash Allowance…….……$12,500.00

.2 Amount of each cash allowance does not include *Contractor*'s overhead and profit, and other related costs, which shall be included in the *Contract Price* and not in the cash allowance.

1.3 EXPENDITURE OF CASH ALLOWANCES

.1 *Owne*r, through *Consultant*, will provide *Contractor* with documentation required to permit pricing of a cash allowance item.

.2 *Owner*, through *Consultant*, may request *Contractor* to identify potential *Suppliers* or *Subcontractors*, as applicable, and to obtain at least three competitive prices for each cash allowance item.

.3 *Owner*, through *Consultant*, may request the *Contractor* to disclose originals of all bids, quotations, and other price related information received from potential *Suppliers* or *Subcontractors*.

END OF SECTION

1.1 DEFINITION

.1 In this Section “Substitution” means a *Product*, a manufacturer, or both, not originally specified in *Contract Documents* by proprietary name but proposed for use by *Contractor* in place of a *Product*, a manufacturer, or both, specified by proprietary name.

1.2 SUBSTITUTION PROCEDURES

.1 *Contractor* may propose a Substitution wherever a *Product* or manufacturer is specified by proprietary name(s), unless there is accompanying language indicating that Substitutions will not be considered.

.2 *Contractor* may propose a Substitution wherever a *Product* or manufacturer is specified by proprietary name(s) and accompanied by language such as "or equal", "or approved equal", or other similar words. Do not construe such language as an invitation to unilaterally provide a Substitution without *Consultant’*s prior acceptance in writing. Do not order or install any Substitution without a *Supplemental Instruction* or *Change Order*.

.3 Provided a proposed Substitution submission includes all of the information specified in this Section under Submission Requirements For Proposed Substitutions, *Consultant* will promptly review and accept or reject the proposed Substitution. The *Consultant* may request the *Contractor* submit a third party independent test report as part of their submission.

.4 *Consultant* may accept a Substitution if satisfied that:

.1 the proposed substitute *Product* is the same type as, is capable of performing the same functions as, interfaces with adjacent work the same as, and meets or exceeds the standard of quality, performance and, if applicable, appearance and maintenance considerations, of the specified Product,

.2 the proposed substitute manufacturer has capabilities comparable to the specified manufacturer, and

.3 the Substitution provides a benefit to *Owner*.

.5 If *Contractor* fails to order a specified *Product* or order a *Product* by a specified manufacturer in adequate time to meet *Contractor*’s construction schedule, *Consultant* will not consider that a valid reason to accept a Substitution.

.6 If *Consultant* accepts a Substitution and subject to *Owner*’s agreement, the change in the *Work* will be documented in the form of either a *Supplemental Instruction* or *Change Order*.

.7 If a Substitution is accepted in the form of a *Supplemental Instruction* or *Change Order*, *Contractor* shall not revert to an originally specified *Product* or manufacturer without *Consultant*’s prior written acceptance.

1.3 SUBMISSION REQUIREMENTS FOR PROPOSED SUBSTITUTIONS

.1 Include with each proposed Substitution the following information:

.1 Identification of the Substitution, including product name and manufacturer's name, address, telephone numbers, and web site.

.2 Reason(s) for proposing the Substitution.

.3 A statement verifying that the Substitution will not affect the *Contract Price* and *Contract Time* or, if applicable, the amount and extent of a proposed increase or decrease in *Contract Price* and *Contract Time* on account of the Substitution.

.4 A statement verifying that the Substitution will not affect the performance or warranty of other parts of the *Work*.

.5 Manufacturer's *Product* literature for the Substitution, including material descriptions, compliance with applicable codes and reference standards, performance and test data, compatibility with contiguous materials and systems, and environmental considerations.

.6 Product samples as applicable.

.7 A summarized comparison of the physical properties and performance characteristics of the specified *Product* and the Substitution, with any significant variations clearly highlighted.

.8 Availability of maintenance services and sources of replacement materials and parts for the Substitution, as applicable, including associated costs and time frames.

.9 If applicable, estimated life cycle cost savings resulting from the Substitution.

.10 Details of other projects and applications where the Substitution has been used.

.11 Identification of any consequential changes in the *Work* to accommodate the Substitution and any consequential effects on the performance of the *Work* as a whole. A later claim for an increase to the *Contract Price* or *Contract Time* for other changes in the *Work* attributable to the Substitution will not be considered.

END OF SECTION

1.1 SAFETY

.1 The Contractor is required to conform with the latest edition of the Ontario Occupational Health and Safety Act, and applicable Regulations, including but not limited to O. Reg. 213/91 - Construction Projects and O. Reg. 851 - Industrial Establishments and any other applicable Safety Regulations relating to the performance of this project. The London Public Library reserves the right to cancel this contract for the Contractor's failure to comply with these and any other applicable safety regulations. A copy of all applicable regulations should be on the job site at all times.

.2 No work will be permitted unless the Contractor has on hand a complete set of unexpired Safety Data Sheets (SDS) related to the W.H.I.M.S. controlled products that are being used in the performance of this project. This information is expected to be produced upon request.

.3 Should there be an accident/incident, the Contractor is responsible to notify the appropriate parties and authorities and submit all required reports and documentation. Provide a copy of all reports and correspondence regarding the incident to both the Owner and the Consultant.

.4 Should there be a work refusal for Health and Safety concerns, the Contractor is required to notify the Consultant and the Owner of the reason for the refusal, the actions taken and the outcome.

.5 The following Appendix I: Asbestos – Standard Contract Clauses shall be included in contracts and tenders where facilities contain or may contain asbestos:

.1 The London Public Library is responsible to notify bidders where asbestos is present in facilities. The attached document (I,e, Designated Substance Survey, Asbestos Record) provides information as the presence of asbestos in London Public Library facilities.

.2 Work involving asbestos materials is to be completed in accordance with the Ontario Regulation 278-05 respect Designated Substances – Asbestos on Construction Projects and in Buildings and Repair Operations.

.3 Pre-Demolition/Alteration/Repair Designated substance surveys (Pre-DAR) surveys shall be completed if required by the London Public Library.

.4 Entry into ceiling spaces containing friable asbestos must be done in accordance with Specification for Type 2 Asbestos Work Operations and Ontario Regulation respecting Designated Substances – Asbestos on Construction Projects and in Building and Repair Operations.

.5 Where in the performance of work it is necessary for the successful bidder to disturb asbestos, or to conduct work in close proximity to asbestos materials, the successful bidder shall ensure that its personnel have received training and instruction in asbestos hazards and work methods, in accordance with requirements of the Ontario Regulation 278/05 respecting Designated Substances – Asbestos on Construction Projects and in Buildings and repair Operations.

.6 Contractors must provide written evidence that all workers and supervisors involved in asbestos related work have received appropriate instruction and training.

.7 For Type 3 Operations the successful constructor/contractor shall provide proof of

completion of the Asbestos Abatement Worker Training Program for workers and supervisors in accordance with the Ontario Regulation 278/05 respecting Designated Substances – Asbestos on Construction Projects and in Buildings and Repair Operations.

.8 During the course of work the Project Manager of the London Public Library contact shall be notified immediately if material is discovered that was not in the onside record and may be asbestos containing material.

.9 The successful constructor/contractor shall notify any subcontractors of the presence and location of asbestos, ensure subcontractors work in accordance with the Ontario Regulation respecting Designated Substances – Asbestos on Construction Projects and in Buildings and Repair Operations and submit a written work plan, upon request, prior to the beginning of asbestos related work.

.10 Type 2 Operations must be done in accordance with the Ontario Regulation respecting Designated Substances – Asbestos on Construction Projects and in Buildings and Repair Operations.

.6 Should circumstances of the job site render the Contractor unable to comply with these requirements, the Contractor shall immediately notify the London Public Library contact representative.

.7 They shall ensure that containers for any hazardous materials or controlled products used or stored on London Public Library premises are labelled in accordance with requirements of the Ontario Workplace Hazardous Materials Information System Regulation, and if used for containment of flammable liquids, conform to the requirements pertaining to flammable liquids handling and storage as set out in the Ontario Industrial Establishments Regulation and the Ontario Construction Projects Regulation, as applicable. All hazardous materials or controlled products will be removed from the site following completion of the contract, or sooner where practical and possible.

.8 The Contractor is required to review the Contractors General Workplace Health and Safety Requirements and sign and submit the Acknowledgement form appended to this section prior to commencing with construction or maintenance projects.

1.2 TRAFFIC REQUIREMENTS

.1 Supply and placement of flashers and channelizing methods for the guidance and protection of pedestrians and vehicular traffic must conform to Ontario Book 7, Temporary Condition. The Contractor is required to have on-site staff with this training or will provide contact information of persons engaged by the Contractor to perform this duty on-site, on behalf of the Contractor.

1.3 CODE OF CONDUCT

.1 The bidder must ensure that they and their subcontractors have reviewed and are compliant with the London Public Library's Code of Conduct and Health and Safety policies. Please see the London Public Library Organizational Readiness policies listed on the Policies webpage.

END OF SECTION

London Public Library

Contractors General Workplace Health and Safety Requirements

Contractor Safety Management Program – HR/OHS 4.4-25

June 7, 2024

Contractors General Workplace Health and Safety Requirements

Introduction

The London Public Library (LPL) is committed to the Health and Safety of all of our employees, and expects the same commitment by each contractor to its own employees.

The Occupational Health and Safety Act (OHSA) and its Regulations assign significant obligations to any corporation that uses third parties, including contractors or subcontractors, to perform work at a workplace. This Program is designed to address these obligations when contracts for services are undertaken on LPL property. The assignment of responsibility for health and safety at the work site depends on the roles assumed by the various parties involved with the contract work.

To achieve these goals, LPL employees directly responsible for engaging service providers (e.g. Project Managers, Project Coordinators, etc.,) must:

- Identify potential health and safety hazards.
- Specify health and safety requirements in the contract.
- Obtain agreement to follow these requirements prior to awarding the contract.
- Actively monitor compliance with health and safety requirements.
- Ensure appropriate employees receive direction and training to fulfil their assigned responsibilities.

Outside Carriers, Delivery, Pickup personnel are generally not required to complete the Contractor Safety Program requirements unless the scope of the service that they provide will go beyond the routine delivery/pickup of commodities at approved points within the LPL.

Professional Consultants generally are not required to complete the Contractor Safety Program requirements unless the scope of the service that they provide will impose health and safety hazards.

The Contractor Safety Management Program does not cover all of the site-specific or even project-specific health and safety issues that may arise. The Program is by no means meant to be all inclusive of the requirements of the OHSA or any other applicable regulations.

Elements

The Contractor Safety Management Program consists of the following elements:

1. **Contractor General Workplace Health and Safety Requirements**

   Contains specific information the contractor needs to be aware of, before and during the performance of any work at the LPL, in order to ensure compliance with the LPL Program. Not all information in this document applies to all contractors. It is the responsibility of the individual contractors to review the requirements and acknowledge in writing that they understand the applicable sections based on the work or service that they will be providing to the LPL.

2. **Contractor Acknowledgement**

   Prior to doing work at the LPL, all new contractors must sign the Acknowledgment – Contractors General Workplace Health and Safety Requirements document and submit as outlined on the form to the London Public Library Representative or Project Manager. The declaration must be signed by a representative of the contractors company who has the authority to commit the

contractor company to comply with the Contractors General Workplace Health and Safety Requirements.

3. **Contractor Safety Orientation and Hazard Review Checklist**

   It is the contractor's responsibility to review the Contractors General Workplace Health and Safety Requirements with their employees and sub-contractors.

   Prior to work commencing, the LPL representative or Project Manager must complete the Contractor Safety Orientation and Hazard Review checklist and review with the contractor.

4. **Safety Performance Monitoring, Reporting and Review**

   Performance of the contractor may include inspection, hazard reporting and/or safety performance reviews.

   At any time a hazard is identified with regards to work a contractor is performing for the LPL, the hazard will be reported to the contractors representative to correct and will be recorded by the LPL representative or Project Manager.

General

1. Unless explicitly referenced elsewhere in contract documentation, the contractor will be designated as the "constructor", as defined by the Occupational Health and Safety Act (OHSA), for the purpose of construction project work. As constructor, the contractor shall assume all of the responsibilities of the constructor as set out in the OHSA and its regulations and enforce strict compliance therewith.

2. The contractor must have an Occupational Health and Safety Policy and a program to implement that policy.

3. The contractor shall ensure that work is conducted in a safe manner consistent with the intent of the OHSA, the Environmental Protection Act, and any other applicable Act, Regulation or By-law. Violations of any such legislation may result in the contractor being removed from the project.

4. The contractor shall appoint a competent person as defined by the OHSA to supervise work. The Contractor shall provide to the LPL representative or Project Manager, certificate(s) of training through a recognized industry organization as evidence of the individual's competence, where requested.

5. During execution of this work, the contractor shall ensure that:
   1.
   a) Worker safety is given first priority in planning and performing the work;
   b) Its officers and supervisory employees have a working knowledge of the duties of a "constructor" and "employer" as defined by the OHSA and the provisions of the Regulations applicable to the work;
   c) A copy of the most current version of the OHSA and the Regulations are available at the contractor's office within the working area, or, in the absence of an office, in the possession of the supervisor responsible for the performance of the work;
   d) Workers employed to carry out the work possess the knowledge, skills and protective devices required by law or recommended for use by a recognized industry association to allow them to work safely;

e) Its supervisory employees are Competent Persons as defined in the OHSA, and carry out their duties in a diligent and responsible manner with due consideration for the health and safety of the workers; and all subcontractors and their employees are properly protected from injury while they are at the workplace.

6. Where required by the OHSA and its regulations, the contractor shall register the project (Notice of Project) with the Ministry of Labour's Construction Health and Safety Branch prior to undertaking the project and prior to starting work on the site. The contractor shall pay all registration fees. A copy of the registration must be posted in a visible location at the site, and submitted to the LPL representative before starting work on site.

7. The contractor shall have a written emergency plan, which includes a process for addressing a critical injury, accident or incident as defined by the OHSA. The plan must be readily available. If work is on a project, the emergency plan shall be posted on site prior to the commencement of any work.

8. Where required, the contractor shall provide a telephone, appropriate first aid facilities, eye wash stations and any other measures required for emergency use as identified in the emergency plan.

9. The contractor shall conduct regular workplace inspections in accordance with the OHSA and Regulations for Construction Projects. The contractor must immediately address any preventative or corrective measures required for site safety.

10. The contractor shall provide to the LPL representative or Project Manager, throughout the course of the work, all accident/incident reports.

11. The LPL representative or Project Manager will stop the work immediately via the site supervisor for any violation of the OHSA or its regulations that they become aware of. The contractor shall not resume the work until any such violation has been rectified.

12. The contractor shall be responsible for any delay in the progress of the work due to a violation of legislated requirements or LPL health and safety requirements of which he or she has been advised, and shall take the necessary steps to avoid delay in the final completion of the work without additional cost to the LPL.

13. The contractor shall be responsible for ensuring any workers and/or sub-contractors follow the Act and Regulations and ensure that before beginning work at a project every constructor and employer engaged in construction has completed an approved registration Form 1000 Registration of Constructors and Employers Engaged in Construction. Every Form 1000 must be posted on the project while the employer is working on the site.

Workplace Hazardous Materials Information System (WHMIS)

1. The contractor will maintain, at all times during the work, copies of material safety data sheets for WHMIS-controlled products on site in an easily accessible location.

2. The contractor will comply with the requirements of WHMIS legislation regarding the use, handling, storage and disposal of hazardous materials.
3. Further to the requirements of WHMIS, the contractor will ensure that the application of flammable or toxic materials is commenced only after the following requirements are met:
   2.
   a) Adequate ventilation is provided during and after application.

b) Enclosures are provided, when required, to contain fumes/vapours within the application area.
c) The building heating, ventilating and air-conditioning system will not distribute fumes/vapours throughout the building.
d) Warning signs and barriers, as required by regulations or to prevent entry into the application area, are used.
e) Workers are provided with the necessary respiratory protection devices to safeguard their health.
f) A suitable number of fire extinguishers are immediately adjacent to the area of application for volatile and flammable materials.
g) Notwithstanding the noted requirements above, applications that might affect the well being of any occupants or members of the public may be rescheduled to evenings or weekends at no additional cost to the project.
h) All information regarding the handling of materials, avoidance of spills, cleanup, installation of materials, ventilation, or other features designed to minimize the level of worker or public exposure to airborne contaminants are appropriately communicated.

Designated Substances

In accordance with the Designated Substances Regulations, the LPL Representative or Project Manager will advise the contractor of any known designated substances in the workplace prior to the work commencing.

Where the work involves potential worker exposure to a Designated Substance, the contractor shall:

1. Propose a work plan which includes:

   a) Methods to be used to limit worker exposure to the substance to the extent possible and, in any case, to within exposure limits specified in the applicable Designated Substance Regulation; and,
   b) Methods to ensure compliance with other requirements of the applicable Designated Substance Regulation.

2. Review and discuss the work plan with the LPL representative or Project Manager and sub-contractors prior to work in this area.

3. Perform regular inspection of the work to monitor adherence to the applicable Designated Substance Regulation and work plan.

4. Take immediate action to ensure that non-compliance with the Designated Substance Regulation and/or the work plan is addressed.

5. Document the results of inspections.

6. Notify the LPL representative or Project Manager immediately, by phone or email, if non-compliance is noted.

Hazardous Waste

Where a waste designated as “hazardous waste” in the regulations made under the Environmental Protection Act, will be generated during the work, the contractor shall:

1. In the case of PCB waste, propose a safe handling plan for the handling, storage or disposal (where possible) of the waste for review and approval by the LPL representative or Project Manager prior to proceeding with the work. The contractor will secure permits, where necessary and appropriate.

2. In the case of other hazardous waste generated by contract work, register the project as a hazardous waste site prior to starting work, unless the LPL is already registered as a generator of such waste and has agreed to arrange for its disposal, and provide the LPL a copy of the Generator Registration confirmation from the Ministry of the Environment.

3. Ensure and document that all hazardous waste removed from the site is sent to a licensed waste disposal site by a licensed carrier.

4. Retain copies of all hazardous waste manifests on file at the work site for the duration of the contract.

5. Provide copies of all hazardous waste documentation to the LPL representative, upon request; and

6. Provide Transportation of Dangerous Goods (TDG) training documentation to the LPL representative, upon request.

Protective Clothing, Equipment and Devices

1. The contractor shall maintain on-site compliance with all sections of the OHSA and the applicable Regulations, which outline requirements respecting protective clothing, equipment and devices.

2. The contractor shall ensure that all visitors to the site wear the approved safety boots and other equipment as required.

Housekeeping

1. The contractor shall implement a daily job site cleanup program for all trades to maintain the work site in a tidy and safe condition.

2. All work areas, stairways and walkways are to be kept clean and free of obstructions. Material must be piled or stacked in an orderly manner.

3. The contractor is responsible for ensuring that adequate fire extinguishing equipment is available, in place, regularly inspected and fully charged.

Signage of a Project

1. The contractor must comply with the signage requirements of the Regulations for Construction Projects.

2. The contractor shall post signs in prominent locations and in sufficient numbers to warn workers of a hazard on a project.
3. The contractor shall post signage restricting access to authorized personnel only and ensure that site access is strictly controlled.

Public Way Protection

The contractor must ensure that appropriate measures are taken to protect the general public throughout the course of the work. Where necessary, covered ways for public passage must be provided.

Traffic Protection

Any contractor working on a highway must comply with the construction regulations regardless of whether the work is maintenance or construction. Under the construction regulations, "Highway" means a common and public highway, street, avenue, parkway, driveway, square, place, bridge, viaduct or trestle, any part of which is intended for or used by the general public for the passage of vehicles. Contractors must have a traffic protection plan readily available at each work site.

Access/Egress

The contractor must ensure that means of access to and egress from the work area are appropriately established, controlled and maintained.

Stairs/Landings

The contractor must ensure that stairs and landings are designed, constructed, installed and maintained in a manner consistent with the "Stairs and Landings" requirements of the Regulations under the OHSA.

Ladders

The contractor must ensure that ladders are designed, constructed, installed and maintained in a manner consistent with the "Ladders" requirements of the Regulations under the OHSA.

Forms, Formwork, Falsework and Re-shoring

1. The contractor must comply with the requirements of the Regulations for Construction Projects.

2. Falsework must be designed and constructed in accordance with the most recent version of CSA S269.

3. The contractor shall arrange for design and inspection of formwork, falsework and re-shoring by a professional engineer, as required.

4. The contractor shall ensure that no part of the work is subjected to a load which will endanger its structural integrity or cause permanent deformation. No part of a structure, falsework, formwork or scaffolding is permitted to be subjected to a load greater than it is calculated to bear safely. Every support must be made as strong as a permanent support.

Welding and Cutting

1. The contractor must ensure that the "Cutting and Welding" requirements of the Regulations under the OHSA are complied with.

2. Welding and cutting tasks and all "hot work" shall be carried out in accordance with CAN/CSA 117.2 (Safety in welding, cutting, and allied processes), noting particularly the safety, training and supervisory requirements.

3. When welding or cutting must be done in a location not designated for this purpose, inspection and authorization shall be required in writing (Hot Work Permit) before any such operation commences. The permit shall be issued by an experienced fire safety supervisor or appointee, who shall have inspected the work area and confirmed that all necessary precautions have been taken to prevent a fire.

Scaffolding and Work Platforms

1. Scaffolding must be designed and constructed in conformance with requirements of the Regulations under the OHSA and the latest version of CSA S269.2.

2. The contractor shall ensure that all scaffolding is designed and inspected by a professional engineer, when and as required by the Regulations for Construction Projects. Verification documents must be provided to the LPL representative. Documents are to remain on site throughout the project.

Elevating Work Platforms

The contractor shall ensure compliance with the requirements of the Regulations for Construction Projects and the Regulations for Industrial Establishments with respect to “Elevating Work Platforms”.

Cranes, Hoisting and Rigging

3. The contractor shall ensure compliance with the “Cranes, Hoisting and Rigging” requirements of the Regulations under the OHSA.

4. The Contractor shall make available for inspection by the LPL representative all log books, inspection records detailing repairs, modification and tests for cranes or similar hoisting devices.

Electrical/Mechanical Hazards and Lockout

1. The contractor shall ensure that qualified competent workers, as specified in the Regulations under the OHSA, perform all work on or near electrical equipment or installations.

2. The contractor shall ensure that all electrical equipment in use during performance of the work is appropriately designed, located, and inspected so as to prevent a hazard to workers or the public.

3. The contractor shall ensure that all workers performing work on or near electrical equipment and/or installations are provided with, and use, appropriate personal protective equipment.

4. The contractor shall comply with requirements of the Regulations for Construction Projects and Regulations for Industrial Establishments respecting electrical hazards and CSA Standard Z462.

5. All work performed on electrical installations must comply with any requirements set out by the Ontario Electrical Code and the Electrical Safety Authority Continuous Safety Services Agreement (Facilities Management). The contractor must hold a valid ECRA/ESA contractor license and make available the license number to the City Representative.

6. All Plumbing & Mechanical work must comply with required Technical Standards & Safety Authority (TSSA) accreditation requirements.

Roofing

The contractor shall comply with the “Roofing” requirements of the Regulations for Construction Projects.

Demolition and Damaged Structures

1. The contractor shall ensure that damaged structures are appropriately braced and shored and that such safeguards as are appropriate are provided to prevent injury.

2. The contractor shall take appropriate steps to protect workers and the public during demolition work.

3. Demolition of structures or buildings must be performed in the manner described in the “Demolition and Damaged Structures” sections of the Regulations for Construction Projects.

Excavation and Trenches

1. The contractor shall establish and maintain work site compliance with the “Excavations” requirements of the Regulations for Construction Projects, including provisions related to entry and not working alone, soil types, precautions concerning services, protection of adjacent structures, general requirements and support systems.

2. The contractor shall provide for review an excavation plan showing proposed excavations or trenching on site indicating depths, safety measures to be taken and potential obstacles.

3. The contractor shall coordinate and monitor the work of all trades involved in trenching-related work on the project.

4. If an excavation affects the stability of an adjacent structure, the contractor shall contact the COL Representative for notification purposes and obtain the services of a professional engineer who will specify in writing precautions to be taken to protect the structure affected. This record shall be maintained on site and strictly adhered to during the work.

5. A professional engineer shall design prefabricated, hydraulic or engineered support systems and a record, including the capability of each device, shall be maintained on site.

Tunnels, Shafts, Caissons and Cofferdams

The contractor shall ensure compliance with the “Tunnels, Shafts, Caissons and Cofferdams” requirements of the Regulations for Construction Projects during the performance of the work.

Work in Compressed Air

The contractor shall ensure compliance with the “Working in Compressed Air” requirements of the Regulations for Construction Projects during the performance of the work.

Fall Protection

The contractor shall maintain on-site compliance with requirements of the Regulations for Construction Projects and the Regulations for Industrial Establishments regarding fall protection. The Regulation that provides the highest level of protection shall be followed.

Confined Space

The contractor shall ensure if the work involves entering a confined space, that procedures as required by the Regulations under the OHSA are followed. Proof of competency of workers entering confined spaces must be readily available.

Guardrails/Protective Coverings

1. The contractor must ensure that guardrails and protective coverings are designed, constructed, installed and maintained in a manner consistent with the “Guardrails and Protective Coverings” requirements of the Regulations for Construction Projects.

2. Adequate provision for the protection of workers must be established if guardrails and/or protective coverings are temporarily removed.

Inspection Repairs of Pressure Retaining Items

The contractor must work in accordance with Technical Standards and Safety Act, O.R. 220/01 & NBIC & The Fabrication and Installation of ASME B31.1, B31.3 & B31.5 Pressure Piping Parts and Systems In Accordance With CSA B51.

Acknowledgement – Contractors General Workplace Health and Safety Requirements

DECLARATION

I have received and read the "Contractors General Workplace Health and Safety Requirements". I (owner/company representative) understand that I am fully responsible for ensuring that all of our employees, subcontractors and visitors comply with all necessary rules and regulations outlined therein and with all applicable Occupational Health and Safety Act and its Regulations.

Dated this _____ day of _____ (month), 20_____

_____
Name

_____
Signature

_____
Company Name

1.1 GENERAL

.1 The Standard Construction Document CCDC2-2020 for Stipulated Price Contract, the Definitions and General Conditions GC1 to GC13 inclusive, governing same, form part of this specification.

.2 All Sections of Divisions 0 to 10 inclusive form part of this specification and shall be read to determine their effect upon the work of this Section.

1.2 CODES, STANDARDS AND PERMITS

.1 The Contractor shall ensure that all its employees, agents, volunteers, or others for whom the Contractor is legally responsible receive training regarding the provision of the goods and services contemplated herein to persons with disabilities in accordance with Section 6 of Ontario Regulation 429/07 (the "Regulation") made under the Accessibility for Ontarians with Disabilities Act, 2005, as amended the "Act"). The Contractor shall ensure that such training includes, without limitation, a review of the purposes of the Act and the requirements of the Regulation, as well as instruction regarding all matters set out in Section 6 of the Regulation. The Contractor shall submit to the Owner, as required from time to time, documentation describing its customer service training policies, practices and procedures, and a summary of its training program, together with a record of the dates on which training was provided and a list of the employees, agents volunteers or others who received such training. The Owner reserves the right to require the contractor to amend its training policies to meet the requirements of the Act and the Regulation. The Contractor shall complete and submit the Contractor AODA Declaration of Accessibility Compliance for Contracted Services form attached at the end of this section.

.2 Apply, obtain and pay for all required permits and inspections including but not limited to ESA and TSSA. The Owner will apply and pay for the Building Permit.

.3 Perform work in accordance with the Ontario Building Code, latest edition, and any other code of provincial or local application provided that in any case of conflict or discrepancy, the more stringent requirements shall apply.

.4 Abide by all the requirements of the Municipal Building By-laws and other amendments thereto. Give all notices, conduct all tests and inspections, obtain all permits, and pay all resulting charges.

.5 Meet or exceed requirements of specified standards, codes and references documents.

.6 Delegation of responsibility of any of the above to Subcontractors does not relieve the Contractor of the full responsibilities for observance of the above. Compliance with all such laws and regulations shall be considered part of the Contract.

.7 It is the contractor's responsibility to arrange and pay for all necessary utility locates.

.8 Be responsible for and give adequate attention to the performance and completion of the work in accordance with the terms of this tender and the specifications hereto. The Contractor shall be responsible for the supply of all labour, materials and equipment necessary to complete this project.

1.3 COMMON PRODUCTS REQUIREMENT

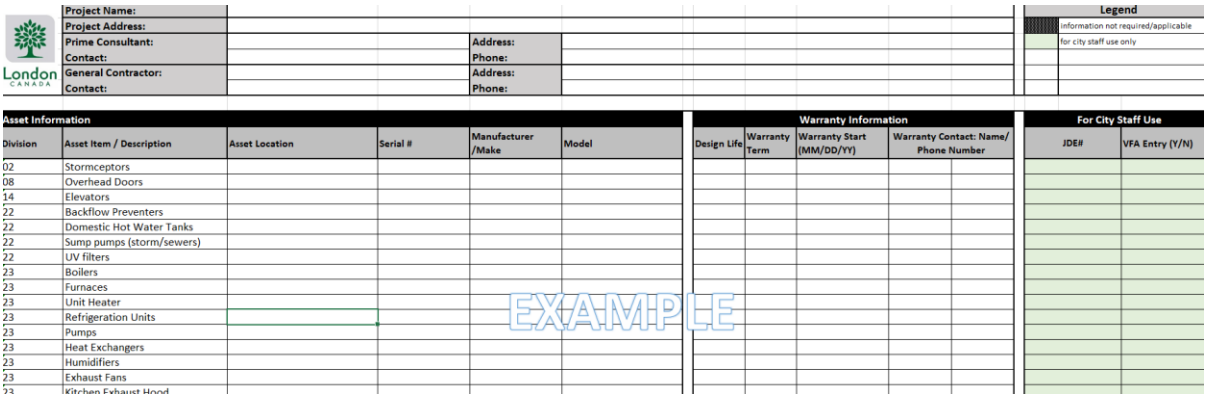
.1 Permanent manufacturer's markings, labels, trademarks, and nameplates on *Products* are not acceptable in prominent locations, except where required by regulatory requirements or for operating instructions, or when located in mechanical or electrical rooms.

1.4 ASSET REGISTRY

.1 Complete an Asset Registry as provided by the Consultant of all major systems and components. (see example below)

.2 The registry will include the equipment/material/product description, date of installation and expected life cycle expectancy.

.3 The London Public Library will use the information to update the capital asset registry for future life cycle renewal projects.



Project Name:												Legend	
Project Address:												information not required/applicable	
Prime Consultant:			Address:									for city staff use only	
Contact:			Phone:										
General Contractor:			Address:										
Contact:			Phone:										
Asset Information						Warranty Information						For City Staff Use	
Division	Asset Item / Description	Asset Location	Serial #	Manufacturer /Make	Model	Design Life	Warranty Term	Warranty Start (MM/DD/YY)	Warranty Contact: Name/ Phone Number			JDE#	VFA Entry (Y/N)
02	Stormceptors												
08	Overhead Doors												
14	Elevators												
22	Backflow Preventers												
22	Domestic Hot Water Tanks												
22	Sump pumps (storm/sewers)												
22	UV filters												
23	Boilers												
23	Furnaces												
23	Unit Heater												
23	Refrigeration Units												
23	Pumps												
23	Heat Exchangers												
23	Humidifiers												
23	Exhaust Fans												
23	Kitchen Exhaust Hood												

EXAMPLE

London CANADA

Declaration of Accessibility Compliance for Contracted Services

In accordance with Ontario Regulations 429/07, Accessibility Standards for Customer

Service, and Ontario Regulation 191/11, Integrated Accessibility Standards Regulation, the City of London is required to train all third parties or persons who provide goods, services or facilities on behalf of the organization.
Contracted employees, third party employees, agents, and others who deal with members of the public on behalf of the City of London must meet requirements of Ontario regulation 429/07 and Ontario Regulation 191/11 with regard to training.
Training for the aforementioned regulations can be accessed online at the following website addresses:

☐ Serve-Ability: Transforming Ontario's Customer Service
http://www.mcss.gov.on.ca/en/serve-ability/index.aspx

☐ Access Forward: Training for an Accessible Ontario
http://www.accessforward.ca/

☐ The Ontario Human Rights Commission: The Ontario Human Rights Code and the *Accessibility for Ontarians with Disabilities Act*
http://www.ohrc.on.ca/en/learning/working-together-ontario-human-rights-code-and-accessibility-ontarians-disabilities-act

Contracted services suppliers are to ensure that training records are maintained, including dates when training was provided, the number of personnel who received training and individual training records. The suppliers are to ensure this information is available to the City of London at any time during the term of the contract, upon request.
I acknowledge the aforementioned accessibility regulations:
Company Name: _____ Date: _____
Authorized Official (print): _____
(signature):_____

1.1 READY-FOR-TAKEOVER

.1 The prerequisites to attaining *Ready-for-Takeover* of the *Work* are described in the CCDC2 2020 General Conditions of the *Contract*.

1.2 INSPECTION AND REVIEW BEFORE READY-FOR-TAKEOVER

.1 *Contractor*'s Inspection: Before applying for the *Consultant*'s review to establish *Ready-for-Takeover* of the *Work*:

.1 Ensure that the specified prerequisites to *Ready-for-Takeover* of the *Work* are completed.

.2 Conduct an inspection of the *Work* to identify defective, deficient, or incomplete work.

.3 Prepare a comprehensive and detailed list of items to be completed or corrected.

.4 Provide an anticipated schedule and costs for items to be completed or corrected.

.2 *Consultant*'s Review: Upon receipt of the *Contractor*'s application for review, together with the *Contractor*'s list of items to be completed or corrected, the *Consultant* and the *Contractor* shall arrange a mutually satisfactory agreed date and time to jointly review the *Work*. The *Consultant* will advise the *Contractor* whether or not the *Work* is *Ready-for-Takeover*. Add additional items, if any, to the *Contractor*'s list of items to be completed or corrected. Provide the *Consultant* with a copy of the revised list.

.3 Maintain the list of items to be completed or corrected and promptly correct or complete defective, deficient and incomplete work. The Contractor's inspection and *Consultant*'s review procedures specified above shall be repeated until the *Work* is *Ready-for-Takeover* and no items remain on the *Contractor*'s list of items to be completed or corrected.

.4 When the *Consultant* determines that the *Work* is *Ready-for-Takeover*, the *Consultant* will notify the *Contractor* and the *Owner* in writing to that effect.

1.3 PREREQUISITES TO FINAL PAYMENT

.1 After *Ready-for-Takeover* of the *Work* and before submitting an application for final payment in accordance with the General Conditions of Contract:

.1 Correct or complete all remaining defective, deficient, and incomplete work.

.2 Remove from the *Place of the Work* all remaining surplus *Products*, *Construction Equipment*, and *Temporary Work*.

.3 Perform final cleaning and waste removal necessitated by the *Contractor*'s work performed after *Ready-for-Takeover*, as specified in Section 01 74 00 – Cleaning and Waste Management.

1.4 SUBSTANTIAL PERFORMANCE OF THE WORK

.1 The prerequisites to, and the procedures for, attaining substantial performance of the *Work*, or similar such milestone as provided for in the lien legislation applicable to the *Place of the Work*, shall be:

.1 independent of those for attaining *Ready-for-Takeover* of the *Work*, and

.2 in accordance with the lien legislation applicable to the *Place of the Work*.

END OF SECTION

Appendix 'A'

Notification and Acknowledgement of Designated Substance Form

Information Provided by Owner

Notification and Acknowledgement of Designated Substances on Project

SECTION I (To be completed by Project Manager)

(Issued by owner at tender. Acknowledged at time of execution.)

Project	Project manager
Sherwood Library Renovation	John Devito
Department/Company	File number
Date	Signature
2024-08-26	John Devito

Designated substance:	If present, location and details
☐ Acrylonitrile*	
☐ Arsenic	
☑ Asbestos	as per Pinchin revised Hazardous Material Reported dated Aug 16/24
☐ Benzene	
☐ Coke Oven Emissions*	
☐ Ethylene Oxide*	
☐ Isocyanate	
☑ Lead	as per Pinchin revised Hazardous Material Reported dated Aug 16/24
☑ Mercury	as per Pinchin revised Hazardous Material Reported dated Aug 16/24
☑ Quartz Silica	Found in common construction material
☑ PCBs	as per Pinchin revised Hazardous Material Reported dated Aug 16/24

* Rare if at all present. These products may be present at a former chemical manufacturing or storage facility.

Please note:
This notification is provided to comply with statutory requirements to disclose the presence of designated substances. This is not intended to be, nor should it be interpreted as, a complete listing of all hazardous or other substances that are or may be present at the project site.

SECTION II Acknowledgement at time of execution (To be completed by Bidder)

Acknowledgement of receiving "Notification of Designated Substances on Project"

We, _____ (Tenderer)

hereby acknowledge having received a completed "**Notification of Designated Substances on Project**" form for _____ project/tender.

Signed for the Bidder:	Name (Please print)
Title	Date

Appendix 'B'

Hazardous Building Material Assessment

Information Provided by Owner

REVISED

Hazardous Building Materials Assessment (Pre-construction)

London Public Library
Sherwood Forest Mall
1225 Wonderland Road North,
London, Ontario

Prepared for:

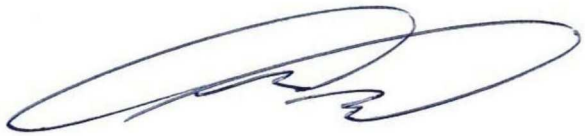
Canadian Commercial Development
484 Waterloo Street
London, Ontario N6B 2P6

August 16, 2024

Pinchin File: 344346

Issued to:	**Canadian Commercial Development**
Issued on:	**August 16, 2024**
Pinchin File:	**344346**
Issuing Office:	**London, ON**
Primary Pinchin Contact:	**Hamza Shabbir, B.Sc. Eng., EIT** **Senior Project Manager** **226.219.7438** **hshabbir@pinchin.com**

Author: Jarrett Deneau, B.Sc
Senior Project Technologist



Reviewer: Michael Maiorana, B.A. Tech., C.E.T.
Operations Manager

EXECUTIVE SUMMARY

Canadian Commercial Development (Client) retained Pinchin Ltd. (Pinchin) to conduct a hazardous building materials assessment at the London Public Library located at 1225 Wonderland Road North, London, Ontario. Pinchin performed the initial assessment on July 9, 2024, and a follow-up visit on August 6, 2024.

The objective of the assessment was to identify specified hazardous building materials in preparation for building renovation activities. The proposed work is indicated on the construction drawings provided by the Client.

The results of this assessment are intended for use with a properly developed scope of work or performance specifications and safe work procedures.

SUMMARY OF FINDINGS

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

Asbestos:

- Texture finish
- Drywall joint compound
- Transite pipe (presumed)

Lead:

- Lead is present in paint.
- Batteries of emergency lights contain solid lead.
- Lead is presumed present in electrical components, including wiring connectors, grounding conductors, and solder, solder on pipe connections, and glazing on ceramic tiles.

Silica: Crystalline silica is present in concrete and other materials such as masonry, and ceramic tiles and grout.

Mercury: Mercury vapour is present in lamp tubes.

Polychlorinated Biphenyls (PCBs): Based on the date of construction, PCBs may be present in light ballasts. Caulking and paint sampled does not contain PCBs.

Mould and Water Damage: Visible mould and water damage was not observed.

SUMMARY OF RECOMMENDATIONS

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

1. Conduct further investigation of the following items, which was not completed during this assessment:
   a. Any items listed as exclusions in this report, prior to disturbance.
2. Prepare a scope of work or specifications and safe work procedures for the hazardous materials removal required for the planned work.
3. Do not disturb suspected hazardous building materials discovered during the planned work, which have not been identified in this report and arrange for further evaluation and testing.
4. Remove and properly dispose of asbestos-containing materials prior to demolition or renovation activities.
5. Remove and properly dispose of PCB ballasts when fixtures are decommissioned. All PCB lamp ballasts must be removed from service and properly disposed of by December 31, 2025.
6. Recycle mercury-containing lamp tubes when removed from service.
7. Follow appropriate safe work procedures when handling or disturbing asbestos, lead, and silica.

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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APPENDIX I Drawings
APPENDIX II-A Asbestos Analytical Certificates
APPENDIX II-B Lead Analytical Certificates
APPENDIX II-C PCB Analytical Certificates
APPENDIX III Methodology
APPENDIX IV Location Summary Report
APPENDIX V Hazardous Materials Summary Report / Sample Log
APPENDIX VI HMIS All Data Report

1.0 INTRODUCTION AND SCOPE

Canadian Commercial Development (Client) retained Pinchin Ltd. (Pinchin) to conduct a hazardous building materials assessment at the London Public Library located within the Sherwood Mall at 1225 Wonderland Road North, London, Ontario.

Pinchin performed the initial assessment on July 9, 2024, and a follow-up visit on August 6, 2024. The surveyor was unaccompanied during the assessment. The assessed area was occupied at the time of the assessment.

The objective of the assessment was to identify specified hazardous building materials in preparation for building renovation activities. The proposed work is indicated on the construction drawings provided by the Client.

The results of this assessment are intended for use with a properly developed scope of work or performance specification.

1.1 Scope of Assessment

The **assessed area** is limited to the portion(s) of the building to be renovated, as described by the Client, and identified in the drawings in Appendix I.

The assessment was performed to establish the type of specified hazardous building materials, locations and approximate quantities incorporated in the structure(s) and its finishes.

For the purpose of the assessment and this report, hazardous building materials are defined as follows:

- Asbestos
- Lead
- Silica
- Mercury
- Polychlorinated Biphenyls (PCBs)
- Mould

The following Designated Substances are not typically found in building materials in a composition/state that is hazardous and were not included in this assessment:

- Arsenic
- Acrylonitrile
- Benzene

- Coke oven emissions
- Ethylene oxide
- Isocyanates
- Vinyl chloride monomer

2.0 METHODOLOGY

Pinchin conducted a room-by-room assessment to identify the hazardous building materials as defined in the scope.

The assessment included limited demolition of wall and ceiling finishes (drywall or plaster) to view concealed conditions at representative areas as permitted by the current building use. Limited destructive testing of flooring was conducted where possible (under ceramic tiles, carpets, or multiple layers of flooring). Demolition of exterior building finishes, masonry walls (chases, shafts etc.), and structural surrounds was not conducted.

Limited demolition of masonry block walls (core holes) was conducted to investigate for loose fill vermiculite insulation. Sampling of roofing materials was not conducted.

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

3.0 BACKGROUND INFORMATION

3.1 Building Description

Description Item	Details
Use	Library
Number of Floors	The building is one storey.
Total Area	The assessed area is approximately 10,550 square feet.
Year of Construction	The building was constructed in 1980 with renovations conducted 2004.
Structure	Concrete, masonry, and steel
Exterior Cladding	Masonry
HVAC	Forced air
Roof	Not assessed
Flooring	Carpet, ceramic tiles, and vinyl floor tiles
Interior Walls	Concrete block, and drywall
Ceilings	Acoustic ceiling tiles, and drywall

3.2 Existing Reports

No existing reports were provided for reference.

4.0 FINDINGS

The following section summarizes the findings of the assessment and provides a general description of the hazardous building materials identified. For details on approximate quantities, condition, friability, accessibility, and locations of hazardous building materials; refer to the Hazardous Material Summary / Sample Log and All Data Report in Appendices V and VI.

Any quantities listed in this report or data tables are estimated based on visual approximations only and are subject to variation.

4.1 Asbestos

4.1.1 Texture Finishes (Decorative)

Texture finish, containing asbestos, is present on drywall ceilings and bulkheads in the Entrance (Location 1, samples S0002A-C, photo 1).

Photo 1

4.1.2 Pipe Insulation

Pipes in the assessed area are either uninsulated or insulated with non-asbestos fibreglass.

Due to the age of the original construction (i.e., 1980), 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.

4.1.3 Duct Insulation and Mastic

Ducts are either uninsulated or insulated with non-asbestos fibreglass (foil-faced or canvas jacketing).

Mastic was not observed on exterior sections of ducts assessed.

4.1.4 Mechanical Equipment Insulation

Mechanical equipment (i.e., hot water tank) is insulated with non-asbestos fibreglass.

Photo 1

4.1.5 Vermiculite

Destructive testing was conducted of a representative selection of masonry block walls, including creating penetrations at six locations. The locations of destructive testing have been indicated on the drawings in Appendix I.

Loose fill vermiculite was not observed within the cavities (photo 1).

Photo 1

4.1.6 Acoustic Ceiling Tiles

The following is a summary of acoustic ceiling tiles sampled.

Description	Sample / Observed Location(s)	Sample Number, Date Code, or Composition	Asbestos	Photo
24” x 48”, lay-in, sharp horizontal fissures and pinholes	Library, and Hallway (Locations 2, and 3)	S0009A-C	No	
24” x 48”, lay-in, oblong fissures and pinholes	Hallway, and Offices (Locations 3, and 4)	02/11/2015	No*	
24” x 48”, lay-in, gypsum	Library (Location 2)	Gypsum	No**	

*Ceiling tiles are presumed to be non-asbestos based on the date of manufacture determined from the date stamp applied to the top of the tiles. The tiles were manufactured after asbestos stopped being used in acoustic ceiling tiles.

**Ceiling tiles are presumed to be non-asbestos based on the composition of the tiles (e.g., fibreglass, wood fibre, gypsum).

4.1.7 Drywall Joint Compound

Drywall joint compound, containing asbestos, is present on wall and ceiling finishes throughout the Entrance (Location 1, samples S0001A, photo 1).

Drywall joint compound present as wall and ceiling finishes throughout the Library (Locations 2, 3, and 4) does not contain asbestos. Pinchin reviewed the demolition/as built drawings (Sherwood Forest Mall,

1225 Wonderland Road North, London, Ontario, prepared by Spriet Associates, Limited Architects London Ltd. Engineers, dated September 28, 2004) from renovations conducted in 2004, as provided by the Client, and confirmed that all interior wall partitions and ceilings within the assessed area were installed during the renovations following demolition of original applications. Asbestos in drywall joint compound was banned in Canada in 1980. Drywall joint compound on interior wall partitions and ceilings in the Library, Hallway, and Offices (Locations 2, 3, and 4) was installed on or after 2004 and is presumed to contain no asbestos. Pinchin also collected five verification samples from applications that could still have been from the original construction (e.g., exterior walls, column enclosures, etc.) and confirmed that the drywall joint compound does not contain asbestos (S0012A-E, photo 2).

Photo 1

Photo 2

4.1.8 Asbestos Cement Products

Cement pipe (Transite), presumed to contain asbestos based on visual observation, is present as rainwater leaders in the assessed area (photo 1).

Photo 1

4.1.9 Vinyl Floor Tiles and Baseboard

The following is a summary of vinyl floor tiles and baseboard adhesives sampled.

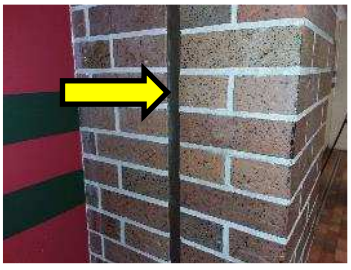
Description	Sample / Observed Location (Location #)	Sample Number	Asbestos (Tile / Adhesive)	Photo
Yellow-tan baseboard mastic	Entrance, Library, and Offices (Locations 1, 2, and 4)	S0003A-C	N/A / No	
12” x 12”, yellow with white smudges	Library, and Hallway (Locations 2, and 3)	S0008A-C	No / No	

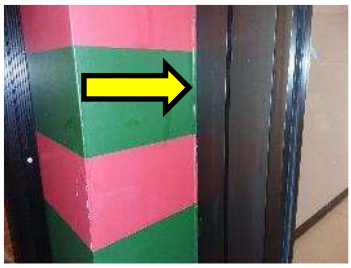
4.1.10 Levelling Compound

The levelling compound associated with the vinyl floor tiles does not contain asbestos (samples S0008A-C, phase c).

4.1.11 Sealants, Caulking, and Putty

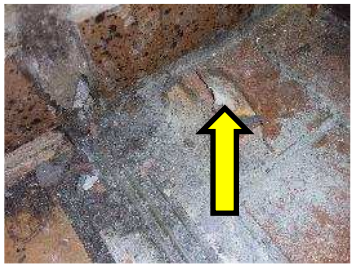
The following is a summary of sealants, caulking, and putties sampled.

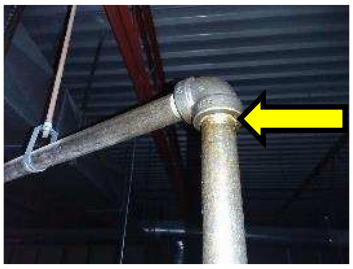
Material, Description and Application	Sample Location (Location #)	Sample Number	Asbestos	Photo
Caulking, brown at interior expansion joint	Entrance (Location 1)	S0005A-C	No	

Material, Description and Application	Sample Location (Location #)	Sample Number	Asbestos	Photo
Caulking, dark brown around interior door frames	Entrance, and Hallway (Locations 1, and 3)	S0007A-C	No	
Sealant, black butyl in between interior window frames and glazing	Library, Hallway, and Offices (Locations 2, 3, and 4)	S0010A-C	No	
Caulking, grey around exterior door frame	Exterior (Location 5)	S0011A-C	No	

4.1.12 Other Building Materials

The following is a summary of other materials sampled.

Description	Sample Location (Location #)	Sample Number	Asbestos	Photo
Grey thin-set under ceramic tiles	Entrance (Location 1)	S0006A-C	No	

Description	Sample Location (Location #)	Sample Number	Asbestos	Photo
Pipe thread sealant on sprinkler system	Library, Hallway, and Offices (Locations 2, 3, and 4)	S0013A-C	No	

4.1.13 Excluded 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
- Electrical components
- Mechanical packing, ropes, and gaskets
- Caulking and putties where not sampled
- Soffit and fascia boards
- Fire resistant doors
- Vibration dampers on HVAC equipment

4.2 Lead

4.2.1 Paints and Surface Coatings

The following table summarizes the analytical results of paints sampled.

Sample Number	Colour, Substrate Description	Sample Location	Lead (%)	Photo
L0001	Beige on drywall	Entrance (Location 1)	0.00035	

Sample Number	Colour, Substrate Description	Sample Location	Lead (%)	Photo
L0002	Brown on drywall	Library (Location 2)	<0.00058	
L0003	Grey on masonry	Exterior (Location 5)	0.00029	
L0004	Off-white on concrete block	Library (Location 2)	0.11	

Results above 0.1% are considered lead-containing.

4.2.2 Lead Products and Applications

Lead-containing batteries are present in emergency lighting (photo 1).

Photo 1

4.2.3 *Excluded Lead Materials*

Lead is known to be present in several materials which were not assessed or sampled. The following materials, where found, should be presumed to contain lead.

- Electrical components, including wiring connectors, grounding conductors, and solder
- Solder on pipe connections
- Glazing on ceramic tiles

4.3 Silica

Crystalline silica is assumed to be a component of the following materials where present in the building.

- Concrete
- Masonry and mortar
- Ceramic tiles and grout

4.4 Mercury

4.4.1 *Lamps*

Mercury vapour is present in fluorescent lamp tubes and other lighting that is known to contain mercury such as mercury vapour lamps.

4.4.2 *Mercury-Containing Devices*

Mercury-containing devices were not found during the assessment.

4.5 Polychlorinated Biphenyls

4.5.1 Caulking and Sealants

A composite sample of the caulking present throughout the assessed area was collected (P0001) and contains 0.1 mg/kg of PCBs. The caulking is non-PCB solids based on the threshold (50 mg/kg).

4.5.2 Paint

A composite sample of the paint present throughout the assessed area was collected (P0002) and contain <0.1 mg/kg of PCBs. The paint is non-PCB solid based on the threshold (50 mg/kg).

4.5.3 Lighting Ballasts

The building has not been comprehensively re-lamped with energy efficient light fixtures (evidence of T-12 fixtures, and as such, a percentage of light ballasts may be manufactured prior to 1980 and may contain PCBs.

4.5.4 Transformers

Transformers were not found during the assessment.

4.5.5 Excluded PCB Materials

PCBs are known to be present in several materials and equipment which were not assessed or sampled. The following materials, where found, should be presumed to contain PCBs until sampling proves otherwise.

- Capacitors within or associated with electrical equipment
- Voltage regulators and capacitors

4.6 Mould and Water Damage

Visible mould growth and water damage was not found during the assessment.

5.0 RECOMMENDATIONS

5.1 General

1. Prepare scope of work or performance specifications for hazardous material removal required for the planned work. The specifications should include safe work practices, personal protective equipment, respiratory protection, and disposal of waste materials.

2. If suspected hazardous building materials are discovered during the planned work, which are not identified in this report, do not disturb, and arrange for further testing and evaluation.
3. Conduct further investigation of the following items, areas, or locations, which were not completed during this assessment:
    a. Any items listed as exclusions in this report, prior to disturbance.
4. Provide this report and the detailed plans and specifications to the contractor prior to bidding or commencing work.
5. Retain a qualified consultant to specify, observe and document the successful removal of hazardous materials.
6. Update the asbestos inventory upon completion of the abatement and removal of asbestos-containing materials and any other relevant findings.

5.2 Building Renovation Work

The following recommendations are made regarding renovation involving the hazardous materials identified.

5.2.1 Asbestos

Remove asbestos-containing materials (ACM) prior to renovation, alteration, or maintenance if ACM may be disturbed by the work. If the identified ACM will not be removed prior to commencement of the work, any potential disturbance of ACM must follow asbestos precautions appropriate for the type of work being performed.

Asbestos-containing materials must be disposed of at a landfill approved to accept asbestos waste.

5.2.2 Lead

For lead-containing (i.e., greater than the EACC guideline of 0.1%), construction disturbance may result in over-exposure to lead dust or fumes. The need for work procedures, engineering controls and personal protective equipment should be assessed on a site-specific basis to comply with Ministry of Labour, Training and Skills Development regulations and guidelines.

Items painted with paints containing elevated levels of lead may be a hazardous waste. Test lead-painted materials for leachable lead and other metals prior to disposal.

Lead-containing items should be recycled when taken out of service.

5.2.3 Silica

Construction disturbance of silica-containing products may result in excessive exposures to airborne silica, especially if performed indoors and dry. Cutting, grinding, drilling or demolition of materials containing silica should be completed only with proper respiratory protection and other worker safety precautions that comply with applicable regulations and guidelines.

5.2.4 Mercury

Do not break lamps. Recycle and reclaim mercury from fluorescent lamps when taken out of service. Mercury is classified as a hazardous waste and must be disposed of in accordance with applicable regulations.

5.2.5 PCBs

As light fixtures are removed from service, examine light ballasts for PCB content. If ballasts are not clearly labelled as “non-PCB” or are suspected to contain PCBs, package, and ship ballasts for destruction at a federally permitted facility. As per the PCB Regulation (SOR/2008-273), all PCB light ballasts must be removed from service and properly disposed of by December 31, 2025.

6.0 TERMS AND LIMITATIONS

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

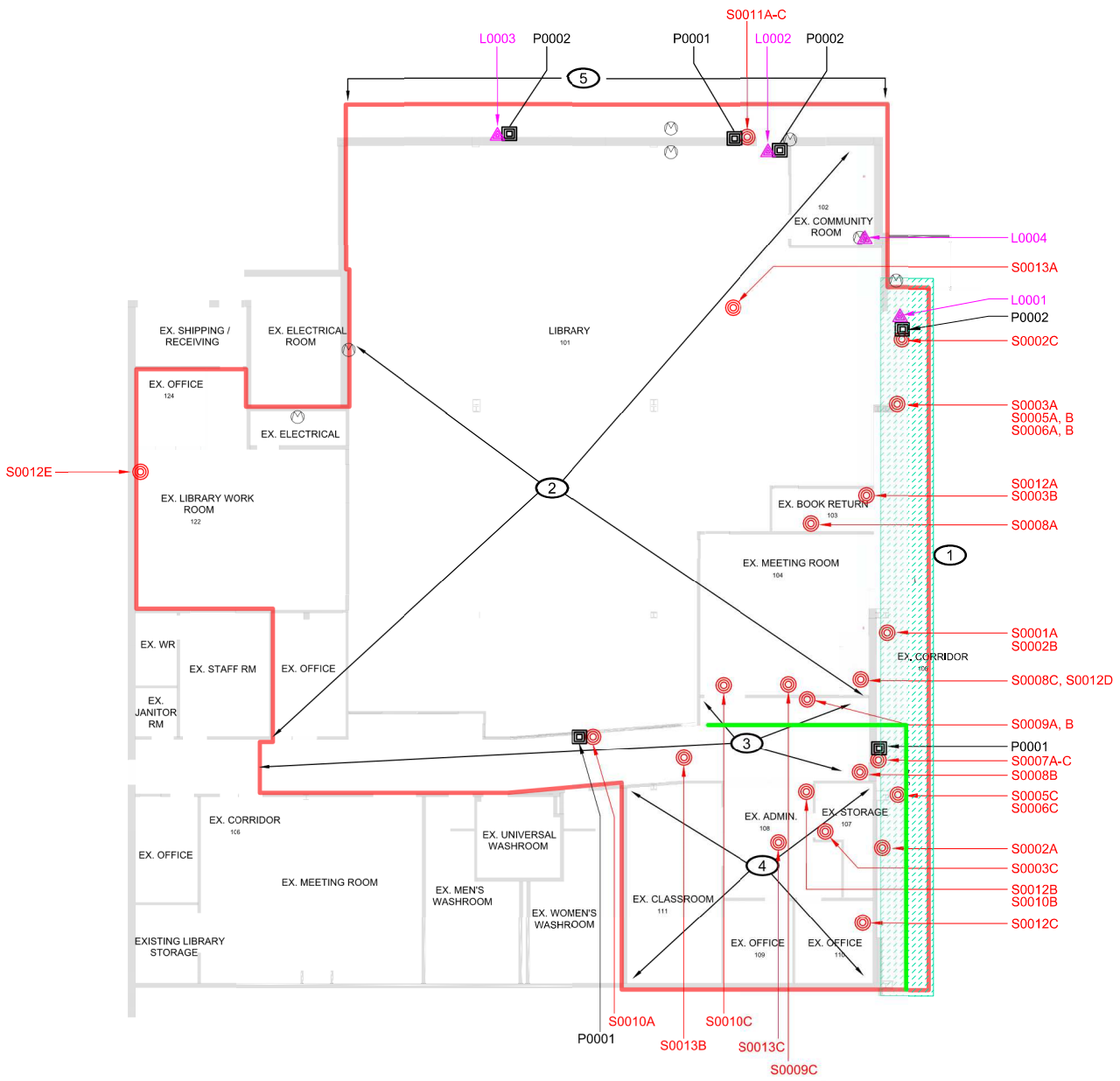
Information provided by Pinchin is intended for Client use only. Pinchin will not provide results or information to any party unless disclosure by Pinchin is required by law. Any use by a third party of reports or documents authored by Pinchin or any reliance by a third party on or decisions made by 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. Asbestos on Construction Projects and in Buildings and Repair Operations, Ontario Regulation 278/05.
2. Designated Substances, Ontario Regulation 490/09.
3. Lead on Construction Projects, Ministry of Labour Guidance Document.
4. The Environmental Abatement Council of Canada (EACC) Lead Guideline for Construction, Renovation, Maintenance or Repair.
5. Ministry of the Environment Regulation, R.R.O. 1990 Reg. 347 as amended.
6. Ministry of the Environment Regulation, R.R.O. 1990 Reg. 362 as amended.
7. Silica on Construction Projects, Ministry of Labour Guidance Document.
8. Alert – Mould in Workplace Buildings, Ontario Ministry of Labour.
9. PCB Regulations, SOR/2008-273, Canadian Environmental Protection Act.
10. Surface Coating Materials Regulations, SOR/2016-193, Canada Consumer Product Safety Act.
11. Consolidated Transportation of Dangerous Goods Regulations, including Amendment SOR/2019-101, Transportation of Dangerous Goods Act.
12. Mould Guidelines for the Canadian Construction Industry, Standard Construction Document CCA 82 – 2004 (Revised 2018), Canadian Construction Association.

APPENDIX I
Drawings



LEGEND

- PINCHIN LOCATION NUMBER
- ASSESSED AREA
- ASBESTOS BULK SAMPLE
- LEAD BULK SAMPLE
- PCB BULK SAMPLE
- VERMICULITE DRILLHOLE

ASBESTOS-CONTAINING MATERIALS:

- TRANSITE PIPE (PRESUMED)
- TEXTURE FINISH

FOR CLARITY, THE FOLLOWING ASBESTOS-CONTAINING MATERIALS ARE PRESENT IN THE ASSESSED AREA, BUT HAVE NOT BEEN HATCHED ON THE DRAWING:

- DRYWALL JOINT COMPOUND

NOT ALL KNOWN OR SUSPECTED HAZARDOUS BUILDING MATERIALS MAY BE DEPICTED ON THE DRAWING. REFER TO THE HAZARDOUS BUILDING MATERIALS ASSESSMENT REPORT FOR A COMPLETE LIST OF KNOWN AND SUSPECTED HAZARDOUS BUILDING MATERIALS.

LEGEND IS COLOUR DEPENDENT. NON-COLOUR COPIES MAY ALTER INTERPRETATION.

BASE PLAN PROVIDED BY CLIENT.

PINCHIN

PROJECT NAME:
REVISED PRE CONSTRUCTION HAZADOUS BUILDING MATERIALS ASSESSMENT

CLIENT NAME:
CANADIAN COMMERCIAL DEVELOPMENT GROUP OF COMPANIES

PROJECT LOCATION:
1255 WONDERLAND ROAD NORTH LONDON, ONTARIO, CANADA

FIGURE NAME:
GROUND FLOOR

PROJECT NUMBER:	SCALE:
344346	NOT TO SCALE
DRAWN BY:	REVIEWED BY:
LS	JD
DATE:	FIGURE NUMBER:
AUGUST 2024	1 OF 1

APPENDIX II-A

Asbestos Analytical Certificates

Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis

Project Name:	**Sherwood**		
Project No.:	**0344346.000**		
Prepared For:	**J. Deneau**		
Lab Reference No.:	**b320248**		
Analyst(s):	**N. Barinque**		
Date Received:	**August 7, 2024**	**Samples Submitted:**	**3**
Date Analyzed:	**August 9, 2024**	**Phases Analyzed:**	**3**

The Pinchin Ltd. Mississauga asbestos laboratory is accredited by the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (NVLAP Lab Code 101270-0) for the 'EPA – 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples,' and the 'EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials'; and meets all requirements of ISO/IEC 17025:2017. The Pinchin asbestos laboratory uses the aforementioned methods of analysis for all bulk materials. Please be advised that bulk materials do not include debris, dust, and tape-lift samples, and the analysis and reporting of these materials does not conform with Pinchin Ltd.'s NVLAP accreditation.

Bulk samples are checked visually and scanned under a stereomicroscope. Slides are prepared and observed under a Polarized Light Microscope (PLM) at magnifications of 40X, 100X or 400X as appropriate. Asbestos fibres are identified by a combination of morphology, colour, refractive index, extinction, sign of elongation, birefringence and dispersion staining colours. A visual estimate is made of the percentage of asbestos present. A reported concentration of less than (<) the regulatory threshold indicates the presence of confirmed asbestos in trace quantities, limited to only a few fibres or fibre bundles in an entire sample. This method complies with provincial regulatory requirements where applicable. Multiple phases within a sample are analyzed and reported separately.

All bulk samples submitted to this laboratory for asbestos analysis are retained for a minimum of three months. Samples may be retrieved, upon request, for re-examination at any time during that period.

This report relates only to the items tested.

Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis

Project Name: Sherwood
Project No.: 0344346.000
Prepared For: J. Deneau

Lab Reference No.: b320248
Date Analyzed: August 9, 2024

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S0013A Piping, Sprinkler, Sealant, Beige, Loc:2, Library	Homogeneous, beige, soft, sticky material.	None Detected	Cellulose 0.5-5% Man-Made Vitreous Fibres 0.5-5% Wollastonite 0.5-5% Non-Fibrous Material > 75%
Comments:	This sample is saturated with an unknown liquid.		
S0013B Piping, Sprinkler, Sealant, Beige, Loc:3, Hallway	Homogeneous, beige, soft, cementitious material.	None Detected	Wollastonite 0.5-5% Talc 0.5-5% Non-Fibrous Material > 75%
S0013C Piping, Sprinkler, Sealant, Beige, Loc:4, Offices	Homogeneous, beige, soft, cementitious material.	None Detected	Wollastonite 0.5-5% Talc 0.5-5% Non-Fibrous Material > 75%

Reviewed by:

Digitally signed by Pinchin Ltd.
Date: 2024.08.09 08:17:45-04'00'

Reporting Analyst:

Digitally signed by Pinchin Ltd.
Date: 2024.08.09 08:17:09-04'00'

Analyzed by: MB 24-8-9

Reviewed by: KB

Report Sent by: ZD

EWC REQ 8/7

Pinchin Ltd. - Asbestos Laboratory
Internal Asbestos Bulk Sample Chain of Custody

Special Instructions:

Client Name:				**Project Address:**	ON		
Portfolio/Building No:	Sherwood			**Pinchin File:**	344346		
Submitted by:	Jarrett Deneau			**Email:**	jdeneau@pinchin.com		
CC Results to:	Hamza Shabbir			**CC Email:**	hshabbir@pinchin.com		
Date Submitted:	August	06	2024	**Required by:**	Month	Day	2024
# of Samples:	3			**Priority:**	Rush Turnaround		
Year of Building Construction (*Mandatory, Years ONLY*):				1980			
Do NOT Stop on Positive (Sample Numbers):							
Pinchin Group Company (*Mandatory Field*):				Pinchin			
HMIS2 Building Reference #:				136396/20246915205900			
To be Completed by Lab Personnel Only:							
Lab Reference #:	b320248 CA			**Time:**	24 hour clock		
Received by:	AUG 0 7 2024			**Date:**	Month	Day	Year
Name(s) of Analyst(s):							

Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)	
S	0013	A	Piping,Sprinkler,Sealant,Beige,Loc:2,Library	ND
S	0013	B	Piping,Sprinkler,Sealant,Beige,Loc:3,Hallway	ND
S	0013	C	Piping,Sprinkler,Sealant,Beige,Loc:4,Offices	ND

Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis

Project Name:	**Sherwood**		
Project No.:	**0344346.000**		
Prepared For:	**J. Deneau / H. Shabbir**		
Lab Reference No.:	**b318190 Revision 1**		
Analyst(s):	**R. Janssen**		
Date Received:	**July 11, 2024**	**Samples Submitted:**	**33**
Date Analyzed:	**July 17, 2024**	**Phases Analyzed:**	**42**

The Pinchin Ltd. Dartmouth asbestos laboratory is accredited by the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (NVLAP Lab Code 201032-0) for the 'EPA – 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples,' and the 'EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials'; and meets all requirements of ISO/IEC 17025:2017. The Pinchin asbestos laboratory uses the aforementioned methods of analysis.

Bulk samples are checked visually and scanned under a stereomicroscope. Slides are prepared and observed under a Polarized Light Microscope (PLM) at magnifications of 40X, 100X or 400X as appropriate. Asbestos fibres are identified by a combination of morphology, colour, refractive index, extinction, sign of elongation, birefringence and dispersion staining colours. A visual estimate is made of the percentage of asbestos present. A reported concentration of less than (<) the regulatory threshold indicates the presence of confirmed asbestos in trace quantities, limited to only a few fibres or fibre bundles in an entire sample. This method complies with provincial regulatory requirements where applicable. Multiple phases within a sample are analyzed and reported separately.

All bulk samples submitted to this laboratory for asbestos analysis are retained for a minimum of three months. Samples may be retrieved, upon request, for re-examination at any time during that period.

This report relates only to the items tested.

Revision History:

Revision 1 (2024-07-18)	Sample removed (Sample S0001A), which reduced # samples submitted and # sample phases by 1. Changed sample number (Sample S0001B changed to S0001A). Changed sample numbers (Samples S0001C-G changed to S0012A-E)

Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis

Project Name: Sherwood
Project No.: 0344346.000
Prepared For: J. Deneau / H. Shabbir

Lab Reference No.: b318190 Revision 1
Date Analyzed: July 17, 2024

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S0001A Wall, Bulkhead, Drywall And Joint Compound, Loc:1, Entrance	Homogeneous, light grey, drywall joint compound.	Chrysotile 0.5-5%	Non-Fibrous Material > 75%
Comments:	This sample is small in size. For more reliable results, a larger sample is required.		
S0002A Ceiling, Texture Coat, White Stipple, Loc:1, Entrance	Homogeneous, white, finishing or texture coat.	Chrysotile 0.5-5%	Perlite 5-10% Other Non-Fibrous > 75%
S0002B Ceiling, Texture Coat, White Stipple, Loc:1, Entrance	Homogeneous, white, finishing or texture coat.	Chrysotile 0.5-5%	Perlite 5-10% Other Non-Fibrous > 75%
S0002C Ceiling, Texture Coat, White Stipple, Loc:1, Entrance	Homogeneous, white, finishing or texture coat.	Chrysotile 0.5-5%	Perlite 5-10% Other Non-Fibrous > 75%
S0003A Wall, Base, Adhesive/mastic, Yellow-tan, Loc:1, Entrance	Homogeneous, yellow, adhesive material.	None Detected	Non-Fibrous Material > 75%
S0003B Wall, Base, Adhesive/mastic, Yellow-tan, Loc:2, Library	Homogeneous, beige, adhesive material.	None Detected	Non-Fibrous Material > 75%
Comments:	Another phase is present but there was insufficient material submitted to analyze.		
S0003C Wall, Base, Adhesive/mastic, Yellow-tan, Loc:4, Offices	2 Phases: a) Homogeneous, white, drywall joint compound. b) Homogeneous, beige, adhesive material.	None Detected None Detected	Non-Fibrous Material > 75% Non-Fibrous Material > 75%
Comments:	Rubber baseboard is present on the surface of this sample.		

Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis

Project Name: Sherwood
Project No.: 0344346.000
Prepared For: J. Deneau / H. Shabbir

Lab Reference No.: b318190 Revision 1
Date Analyzed: July 17, 2024

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S0005A Wall, Expansion Joint, Caulking, Brown, Loc:1, Entrance	Homogeneous, dark brown, caulking material.	None Detected	Man-Made Vitreous Fibres 0.5-5% Non-Fibrous Material > 75%
S0005B Wall, Expansion Joint, Caulking, Brown, Loc:1, Entrance	Homogeneous, dark brown, caulking material.	None Detected	Man-Made Vitreous Fibres 0.5-5% Non-Fibrous Material > 75%
Comments:	Wood fibres are present on the surface of this sample.		
S0005C Wall, Expansion Joint, Caulking, Brown, Loc:1, Entrance	Homogeneous, dark brown, caulking material.	None Detected	Man-Made Vitreous Fibres 0.5-5% Non-Fibrous Material > 75%
Comments:	Foam is present on the surface of this sample.		
S0006A Wall, Base, Thin-set, Grey, Loc:1, Entrance	Homogeneous, grey, granular, cementitious material.	None Detected	Non-Fibrous Material > 75%
S0006B Floor, Thin-set, Grey, Loc:1, Entrance	Homogeneous, light grey, granular, cementitious material.	None Detected	Cellulose 0.5-5% Non-Fibrous Material > 75%
Comments:	Ceramic tile is present on the surface of this sample.		
S0006C Wall, Base, Thin-set, Grey, Loc:1, Entrance	Homogeneous, grey, granular, cementitious material.	None Detected	Non-Fibrous Material > 75%
S0007A Wall, Door Frame, Caulking, Dark Brown, Loc:1, Entrance	2 Phases: a) Homogeneous, white, drywall joint compound. b) Homogeneous, dark brown, rubbery, caulking material.	None Detected None Detected	Non-Fibrous Material > 75% Non-Fibrous Material > 75%

Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis

Project Name: Sherwood
Project No.: 0344346.000
Prepared For: J. Deneau / H. Shabbir

Lab Reference No.: b318190 Revision 1
Date Analyzed: July 17, 2024

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S0007B Wall, Door Frame, Caulking, Dark Brown, Loc:1, Entrance	Homogeneous, dark brown, rubbery, caulking material.	None Detected	Non-Fibrous Material > 75%
S0007C Wall, Door Frame, Caulking, Dark Brown, Loc:1, Entrance	Homogeneous, dark brown, rubbery, caulking material.	None Detected	Non-Fibrous Material > 75%
S0008A Floor, Vinyl Floor Tile And Mastic, 12x12 Yellow With White Smudges, Loc:2, Library	3 Phases: a) Homogeneous, beige, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, black, tar material.	None Detected	Tar and other Non-Fibrous Material > 75%
	c) Homogeneous, grey, levelling compound.	None Detected	Non-Fibrous Material > 75%
Comments:	Another phase is present but there was insufficient material submitted to analyze.		
S0008B Floor, Vinyl Floor Tile And Mastic, Loc:3, Hallway	4 Phases: a) Homogeneous, beige, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, black, tar material.	None Detected	Tar and other Non-Fibrous Material > 75%
	c) Homogeneous, yellow, adhesive material.	None Detected	Non-Fibrous Material > 75%
	d) Homogeneous, grey, levelling compound.	None Detected	Non-Fibrous Material > 75%

Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis

Project Name: Sherwood
Project No.: 0344346.000
Prepared For: J. Deneau / H. Shabbir

Lab Reference No.: b318190 Revision 1
Date Analyzed: July 17, 2024

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S0008C Floor, Vinyl Floor Tile And Mastic, 12x12 Yellow With White Smudges, Loc:2, Library	3 Phases: a) Homogeneous, beige, consolidated, vinyl floor tile. b) Homogeneous, yellow, adhesive material. c) Homogeneous, grey, levelling compound.	None Detected None Detected None Detected	Non-Fibrous Material > 75% Non-Fibrous Material > 75% Non-Fibrous Material > 75%
Comments:	Another phase is present but there was insufficient material submitted to analyze.		
S0009A Ceiling, Ceiling Tiles (lay-in), 24x48 Sharp Horizontal Fissures And Pinholes, Loc:3, Hallway	Homogeneous, beige, layered, compressed, acoustic ceiling tile.	None Detected	Cellulose 25-50% Man-Made Vitreous Fibres 25-50% Perlite 10-25% Other Non-Fibrous 0.5-5%
S0009B Ceiling, Ceiling Tiles (lay-in), 24x48 Sharp Horizontal Fissures And Pinholes, Loc:3, Hallway	Homogeneous, beige, layered, compressed, acoustic ceiling tile.	None Detected	Cellulose 25-50% Man-Made Vitreous Fibres 25-50% Perlite 10-25% Other Non-Fibrous 0.5-5%
S0009C Ceiling, Ceiling Tiles (lay-in), 24x48 Sharp Horizontal Fissures And Pinholes, Loc:2, Library	Homogeneous, beige, layered, compressed, acoustic ceiling tile.	None Detected	Cellulose 25-50% Man-Made Vitreous Fibres 25-50% Perlite 10-25% Other Non-Fibrous 0.5-5%
S0010A Wall, Window, Sealant, Black Butyl, Loc:3, Hallway	Homogeneous, black, soft, caulking material.	None Detected	Non-Fibrous Material > 75%
S0010B Wall, Window, Sealant, Black Butyl, Loc:4, Offices	Homogeneous, black, soft, caulking material.	None Detected	Non-Fibrous Material > 75%

Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis

Project Name: Sherwood
Project No.: 0344346.000
Prepared For: J. Deneau / H. Shabbir

Lab Reference No.: b318190 Revision 1
Date Analyzed: July 17, 2024

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S0010C Wall, Window, Sealant, Black Butyl, Loc:2, Library	Homogeneous, black, soft, caulking material.	None Detected	Non-Fibrous Material > 75%
S0011A Wall, Door Frame, Caulking, Grey, Loc:5, Exterior	Homogeneous, dark brown, rubbery, caulking material.	None Detected	Non-Fibrous Material > 75%
S0011B Wall, Door Frame, Caulking, Grey, Loc:5, Exterior	Homogeneous, dark brown, rubbery, caulking material.	None Detected	Non-Fibrous Material > 75%
S0011C Wall, Door Frame, Caulking, Grey, Loc:5, Exterior	Homogeneous, dark brown, rubbery, caulking material.	None Detected	Non-Fibrous Material > 75%
S00012A Wall, Drywall And Joint Compound, Loc:2, Library	Homogeneous, white, drywall joint compound.	None Detected	Non-Fibrous Material > 75%
S00012B Wall, Drywall And Joint Compound, Loc:4, Offices	Homogeneous, white, drywall joint compound.	None Detected	Non-Fibrous Material > 75%
S00012C Ceiling, Drywall And Joint Compound, Loc:4, Offices	Homogeneous, white, drywall joint compound.	None Detected	Non-Fibrous Material > 75%
S00012D Wall, Drywall And Joint Compound, Loc:2, Library	Homogeneous, white, drywall joint compound.	None Detected	Non-Fibrous Material > 75%
S00012E Wall, Drywall And Joint Compound, Loc:2, Library	Homogeneous, white, drywall joint compound.	None Detected	Non-Fibrous Material > 75%

Reviewed by:

Pinchin Ltd.
2024.07.18 16:12:03-03'00'

Reporting Analyst:

Pinchin Ltd.
2024.07.18 16:08:58-03'00'

Analyzed By: RJ

Reviewed By: JS

Report Sent By:

Pinchin Ltd. - Asbestos Laboratory
Internal Asbestos Bulk Sample Chain of Custody

Client Name:				**Project Address:**	ON			
Portfolio/Building No:	Sherwood			**Pinchin File:**	344346			
Submitted by:	Jarrett Deneau			**Email:**	jdeneau@pinchin.com			
CC Results to:	Hamza Shabbir			**CC Email:**	hshabbir@pinchin.com			
Date Submitted:	July	10	2024	**Required by:**	Month	Day	2024	
# of Samples:	34			**Priority:**	5 Day Turnaround			
Year of Building Construction (*Mandatory, Years ONLY*):				1980				
Do NOT Stop on Positive (Sample Numbers):				S0001A-G, S0002A-C				
Pinchin Group Company (*Mandatory Field*):				Pinchin				
HMIS2 Building Reference #:				136396/20246915205900				
To be Completed by Lab Personnel Only:								
Lab Reference #:	b318190			**Time:**	24 hour clock			
Received by:	Reid Janssen			**Date:**	July	11	2024	
Name(s) of Analyst(s):	R. Janssen							

Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)	
S	0001	A	Wall,Drywall And Joint Compound,Loc:1,Entrance	ND
S	0001	B	Wall,Bulkhead,Drywall And Joint Compound,Loc:1,Entrance	CHO.5-5
S	0001	C	Wall,Drywall And Joint Compound,Loc:2,Library	ND
S	0001	D	Wall,Drywall And Joint Compound,Loc:4,Offices	ND
S	0001	E	Ceiling,Drywall And Joint Compound,Loc:4,Offices	ND
S	0001	F	Wall,Drywall And Joint Compound,Loc:2,Library	ND
S	0001	G	Wall,Drywall And Joint Compound,Loc:2,Library	ND
S	0002	A	Ceiling,Texture Coat,White Stipple,Loc:1,Entrance	CHO.5-5
S	0002	B	Ceiling,Texture Coat,White Stipple,Loc:1,Entrance	CHO.5-5

Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)
S	0002	C	Ceiling,Texture Coat,White Stipple,Loc:1,Entrance CHAS-5
S	0003	A	Wall,Base,Adhesive/mastic,Yellow-tan,Loc:1,Entrance ND
S	0003	B	Wall,Base,Adhesive/mastic,Yellow-tan,Loc:2,Library ND
S	0003	C	Wall,Base,Adhesive/mastic,Yellow-tan,Loc:4,Offices a)ND b)ND
S	0005	A	Wall,Expansion Joint,Caulking,Brown,Loc:1,Entrance ND
S	0005	B	Wall,Expansion Joint,Caulking,Brown,Loc:1,Entrance ND
S	0005	C	Wall,Expansion Joint,Caulking,Brown,Loc:1,Entrance ND
S	0006	A	Wall,Base,Thin-set,Grey,Loc:1,Entrance ND
S	0006	B	Floor,Thin-set,Grey,Loc:1,Entrance ND
S	0006	C	Wall,Base,Thin-set,Grey,Loc:1,Entrance ND
S	0007	A	Wall,Door Frame,Caulking,Dark Brown,Loc:1,Entrance a)ND b)ND
S	0007	B	Wall,Door Frame,Caulking,Dark Brown,Loc:1,Entrance ND
S	0007	C	Wall,Door Frame,Caulking,Dark Brown,Loc:1,Entrance ND
S	0008	A	Floor,Vinyl Floor Tile And Mastic,12x12 Yellow With White Smudges,Loc:2,Library a)ND b)ND c)ND
S	0008	B	Floor,Vinyl Floor Tile And Mastic,Loc:3,Hallway a)ND b)ND c)ND d)ND
S	0008	C	Floor,Vinyl Floor Tile And Mastic,12x12 Yellow With White Smudges,Loc:2,Library a)ND b)ND c)ND

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Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)	
S	0009	A	Ceiling,Ceiling Tiles (lay-in),24x48 Sharp Horizontal Fissures And Pinholes,Loc:3,Hallway	MD
S	0009	B	Ceiling,Ceiling Tiles (lay-in),24x48 Sharp Horizontal Fissures And Pinholes,Loc:3,Hallway	MD
S	0009	C	Ceiling,Ceiling Tiles (lay-in),24x48 Sharp Horizontal Fissures And Pinholes,Loc:2,Library	MD
S	0010	A	Wall,Window,Sealant,Black Butyl,Loc:3,Hallway	MD
S	0010	B	Wall,Window,Sealant,Black Butyl,Loc:4,Offices	MD
S	0010	C	Wall,Window,Sealant,Black Butyl,Loc:2,Library	MD
S	0011	A	Wall,Door Frame,Caulking,Grey,Loc:5,Exterior	MD
S	0011	B	Wall,Door Frame,Caulking,Grey,Loc:5,Exterior	MD
S	0011	C	Wall,Door Frame,Caulking,Grey,Loc:5,Exterior	MD

9

APPENDIX II-B
Lead Analytical Certificates

Your Project #: 344346
Your C.O.C. #: N/A

Attention: Jarrett Deneau

Pinchin Ltd
73 Meg Drive
London, ON
CANADA N6E 2V2

Report Date: 2024/08/09
Report #: R8270193
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4O3011
Received: 2024/08/08, 10:32

Sample Matrix: Bulk
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Metals in Paint	1	2024/08/08	2024/08/09	CAM SOP-00408	EPA 6010D m

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, EPA, APHA or the Quebec Ministry of Environment.

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.

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.

Your Project #: 344346
Your C.O.C. #: N/A

Attention: Jarrett Deneau

Pinchin Ltd
73 Meg Drive
London, ON
CANADA N6E 2V2

Report Date: 2024/08/09
Report #: R8270193
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4O3011
Received: 2024/08/08, 10:32

Encryption Key

Bureau Veritas
09 Aug 2024 16:52:29

Please direct all questions regarding this Certificate of Analysis to:
Nilushi Mahathantila, Project Manager
Email: Nilushi.Mahathantila@bureauveritas.com
Phone# (905) 817-5700

==========

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Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Bureau Veritas Job #: C4O3011
Report Date: 2024/08/09

Pinchin Ltd
Client Project #: 344346
Sampler Initials: JD

ELEMENTS BY ATOMIC SPECTROSCOPY (BULK)

Bureau Veritas ID		ZYD131		
Sampling Date		2024/08/06 12:00		
COC Number		N/A		
	UNITS	**L0004, OFF-WHITE ON CONCRETE BLOCK,LOC:2,LIBRARY**	**RDL**	**QC Batch**
Metals				
Lead (Pb)	%	0.11	0.0010	9564816

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Bureau Veritas Job #: C4O3011
Report Date: 2024/08/09

Pinchin Ltd
Client Project #: 344346
Sampler Initials: JD

TEST SUMMARY

Bureau Veritas ID: ZYD131
Sample ID: L0004, OFF-WHITE ON CONCRETE BLOCK,LOC:2,LIBRARY
Matrix: Bulk

Collected: 2024/08/06
Shipped:
Received: 2024/08/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Metals in Paint	ICP	9564816	2024/08/08	2024/08/09	Jolly John

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

GENERAL COMMENTS

Results relate only to the items tested.

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Bureau Veritas Job #: C4O3011
Report Date: 2024/08/09

QUALITY ASSURANCE REPORT

Pinchin Ltd
Client Project #: 344346
Sampler Initials: JD

			Matrix Spike		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9564816	Lead (Pb)	2024/08/09	91	75 - 125	<0.00010	%	NC	35	99	75 - 125

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

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

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

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

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

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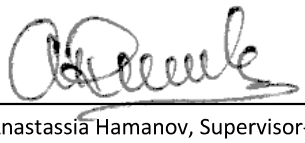
Bureau Veritas Job #: C4O3011
Report Date: 2024/08/09

Pinchin Ltd
Client Project #: 344346
Sampler Initials: JD

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Supervisor-Afternoon Shift

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C4O3011
2024/08/08 10:32

BUREAU VERITAS

6740 Campobello Road, Mississauga, Ontario L5N 2L8
Phone: 905-817-5700 Fax: 905-817-5779 Toll Free: 800-563-6266
CAM FCD-01191/6

CHAIN OF CUSTODY RECORD

Invoice Information	Report Information (if differs from invoice)	Project Information (where applicable)	Turnaround Time (TAT) Required
Company Name: Pinchin Ltd.	Company Name: Pinchin Ltd.	Quotation #:	☐ Regular TAT (5-7 days) Most analyses
Contact Name:	Contact Name: Jarrett Deneau	P.O. #/ AFE#:	PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS
Address:	Address: 73 Meg Drive	Project #: 344346	Rush TAT (Surcharges will be applied)
	London, ON	Site Location:	☒ 1 Day ☐ 2 Days ☐ 3-4 Days
Phone: Fax:	Phone: 226.234.3189 Fax:	Site #:	
Email: ap@pinchin.com	Email: jdeneau@pinchin.com	Site Location Province: ON	Date Required:
MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY		Sampled By: Jarrett Deneau	Rush Confirmation #:

Regulation 153	Other Regulations
☐ Table 1 ☐ Res/Park ☐ Med/ Fine	☐ CCME ☐ Sanitary Sewer Bylaw
☐ Table 2 ☐ Ind/Comm ☐ Coarse	☐ MISA ☐ Storm Sewer Bylaw
☐ Table 3 ☐ Agri/ Other	☐ PWQO Region
☐ Table	☐ Other (Specify)
FOR RSC (PLEASE CIRCLE) Y / N	☐ REG 558 (MIN. 3 DAY TAT REQUIRED)
	☐ REG 406 Table
Include Criteria on Certificate of Analysis: Y / N	

SAMPLES MUST BE KEPT COOL (< 10 °C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

SAMPLE IDENTIFICATION	DATE SAMPLED (YYYY/MM/DD)	TIME SAMPLED (HH:MM)	MATRIX	# OF CONTAINERS SUBMITTED	FIELD FILTERED (CIRCLE) Metals / Hg / CrVI	BTEX/ PHC F1	PHCs F2 - F4	VOCs	REG 153 METALS & INORGANICS	REG 153 ICPMS METALS	REG 153 METALS (Hg, Cr VI, ICPMS Metals, HWS - B)	Lead (Pb) in Paints	PCBs							HOLD- DO NOT ANALYZE
L0004, Off-white On Concrete Block,Loc:2,Library	2024/08/06	12:00	BULK	1								X								

Analysis Requested

LABORATORY USE ONLY

CUSTODY SEAL Y / N		COOLER TEMPERATURES
Present	Intact	
✓	✓	

COOLING MEDIA PRESENT: Y / (N)

COMMENTS

RELINQUISHED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	RECEIVED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	BV JOB #
Jarrett Deneau	2024/08/06	17:00		08/08/08	1032	

Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at https://www.bvna.com/coc-terms-and-conditions

NONT-2024-08-1526

Your Project #: 344346
Site Location: SHERWOOD
Your C.O.C. #: n/a, 1

Attention: Hamza Shabbir

Pinchin Ltd
73 Meg Drive
London, ON
CANADA N6E 2V2

Report Date: 2024/07/17
Report #: R8237576
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4L2598
Received: 2024/07/12, 10:49

Sample Matrix: Solid
Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Metals in Paint	1	2024/07/15	2024/07/15	CAM SOP-00408	EPA 6010D m
Metals in Paint	2	2024/07/16	2024/07/16	CAM SOP-00408	EPA 6010D m

Remarks:

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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.

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.

Your Project #: 344346
Site Location: SHERWOOD
Your C.O.C. #: n/a, 1

Attention: Hamza Shabbir

Pinchin Ltd
73 Meg Drive
London, ON
CANADA N6E 2V2

Report Date: 2024/07/17
Report #: R8237576
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4L2598
Received: 2024/07/12, 10:49

Encryption Key

AUTHORIZED REPORT
RAPPORT AUTORISÉ

Bureau Veritas
17 Jul 2024 10:03:40

Please direct all questions regarding this Certificate of Analysis to:
Nilushi Mahathantila, Project Manager
Email: Nilushi.Mahathantila@bureauveritas.com
Phone# (905) 817-5700

==========

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Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Bureau Veritas Job #: C4L2598
Report Date: 2024/07/17

Pinchin Ltd
Client Project #: 344346
Site Location: SHERWOOD
Sampler Initials: JD

ELEMENTS BY ATOMIC SPECTROSCOPY (SOLID)

Bureau Veritas ID		ZRZ389		ZRZ390		
Sampling Date		2024/07/09 12:00		2024/07/09 12:00		
COC Number		1		1		
	UNITS	**L0001,BEIGE,LOC:1,ENTRANCE**	**RDL**	**L0002,BROWN,LOC:2,LIBRARY**	**RDL**	**QC Batch**
Metals						
Lead (Pb)	%	0.00035	0.00034	<0.00058	0.00058	9517510

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		ZRZ391	ZRZ391		
Sampling Date		2024/07/09 12:00	2024/07/09 12:00		
COC Number		1	1		
	UNITS	**L0003,GREY,LOC:5,EXTERIOR**	**L0003,GREY,LOC:5,EXTERIOR Lab-Dup**	**RDL**	**QC Batch**
Metals					
Lead (Pb)	%	0.00029	0.00029	0.00010	9514523

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Bureau Veritas Job #: C4L2598
Report Date: 2024/07/17

Pinchin Ltd
Client Project #: 344346
Site Location: SHERWOOD
Sampler Initials: JD

TEST SUMMARY

Bureau Veritas ID: ZRZ389 **Collected:** 2024/07/09
Sample ID: L0001,BEIGE,LOC:1,ENTRANCE **Shipped:**
Matrix: Solid **Received:** 2024/07/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Metals in Paint	ICP	9517510	2024/07/16	2024/07/16	Medhat Nasr

Bureau Veritas ID: ZRZ390 **Collected:** 2024/07/09
Sample ID: L0002,BROWN,LOC:2,LIBRARY **Shipped:**
Matrix: Solid **Received:** 2024/07/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Metals in Paint	ICP	9517510	2024/07/16	2024/07/16	Medhat Nasr

Bureau Veritas ID: ZRZ391 **Collected:** 2024/07/09
Sample ID: L0003,GREY,LOC:5,EXTERIOR **Shipped:**
Matrix: Solid **Received:** 2024/07/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Metals in Paint	ICP	9514523	2024/07/15	2024/07/15	Medhat Nasr

Bureau Veritas ID: ZRZ391 Dup **Collected:** 2024/07/09
Sample ID: L0003,GREY,LOC:5,EXTERIOR **Shipped:**
Matrix: Solid **Received:** 2024/07/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Metals in Paint	ICP	9514523	2024/07/15	2024/07/15	Medhat Nasr

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

GENERAL COMMENTS

Metals Analysis: Due to limited amount of sample available for analysis, a smaller than usual portion of the sample was used. Detection limits were adjusted accordingly.

Results relate only to the items tested.

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Bureau Veritas Job #: C4L2598
Report Date: 2024/07/17

QUALITY ASSURANCE REPORT

Pinchin Ltd
Client Project #: 344346
Site Location: SHERWOOD
Sampler Initials: JD

			Matrix Spike		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9514523	Lead (Pb)	2024/07/15	83	75 - 125	<0.00010	%	1.8	35	98	75 - 125
9517510	Lead (Pb)	2024/07/16	NC	75 - 125	<0.00010	%	2.4	35	101	75 - 125

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

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

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

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

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Bureau Veritas Job #: C4L2598
Report Date: 2024/07/17

Pinchin Ltd
Client Project #: 344346
Site Location: SHERWOOD
Sampler Initials: JD

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

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Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

BUREAU VERITAS

6740 Campobello Road, Mississauga, Ontario L5N 2L8
Phone: 905-817-5700 Fax: 905-817-5779 Toll Free: 800-563-6266
CAM FCD-01191/6

CHAIN OF CUSTODY RECORD

Invoice Information	Report Information (if differs from invoice)	Project Information (where applicable)	Turnaround Time (TAT) Required
Company Name: Pinchin Ltd.	Company Name: Pinchin Ltd.	Quotation #:	[X] Regular TAT (5-7 days) Most analyses
Contact Name:	Contact Name: Jarrett Deneau	P.O. #/ AFE#:	PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS
Address:	Address: 73 Meg Drive	Project #: 344346	Rush TAT (Surcharges will be applied)
	London, ON	Site Location: Sherwood	[ ] 1 Day [ ] 2 Days [ ] 3-4 Days
Phone: Fax:	Phone: 226.234.3189 Fax:	Site #:	
Email: ap@pinchin.com	Email: ideneau@pinchin.com, hshabbir@pinchin.com	Site Location Province: ON	Date Required:
MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY		Sampled By: Jarrett Deneau	Rush Confirmation #:

Regulation 153	Other Regulations
[ ] Table 1 [ ] Res/Park [ ] Med/ Fine	[ ] CCME [ ] Sanitary Sewer Bylaw
[ ] Table 2 [ ] Ind/Comm [ ] Coarse	[ ] MISA [ ] Storm Sewer Bylaw
[ ] Table 3 [ ] Agri/ Other	[ ] PWQO Region
[ ] Table ____	[ ] Other (Specify)
FOR RSC (PLEASE CIRCLE) Y / N	[ ] REG 558 (MIN. 3 DAY TAT REQUIRED)
	[ ] REG 406 Table

Include Criteria on Certificate of Analysis: Y / N

SAMPLES MUST BE KEPT COOL (< 10 °C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

SAMPLE IDENTIFICATION	DATE SAMPLED (YYYY/MM/DD)	TIME SAMPLED (HH:MM)	MATRIX	# OF CONTAINERS SUBMITTED	FIELD FILTERED (CIRCLE) Metals / Hg / CrVI	BTEX/ PHC F1	PHCs F2 - F4	VOCs	REG 153 METALS & INORGANICS	REG 153 ICPMS METALS	REG 153 METALS (Hg, Cr VI, ICPMS Metals, HWS - B)	Lead (Pb) in Paints	PCBs	HOLD- DO NOT ANALYZE
L0001, Beige,Loc:1,Entrance	2024/07/09	12:00	BULK	1								X		
L0002, Brown,Loc:2,Library	2024/07/09	12:00	BULK	1								X		
L0003, Grey,Loc:5,Exterior	2024/07/09	12:00	BULK	1								X		

LABORATORY USE ONLY		
CUSTODY SEAL Y / N		COOLER TEMPERATURES
Present	Intact	
✓	✓	

COOLING MEDIA PRESENT: Y / N

COMMENTS

12-Jul-24 10:49
Nilushi Mahathantila
C4L2598

RELINQUISHED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	RECEIVED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)
Jarrett Deneau	2024/07/11	17:00			1049 SBS ENV-916

Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at https://www.bvna.com/coc-terms-and-conditions

Your Project #: 344346
Your C.O.C. #: N/A

Attention: Jarrett Deneau

Pinchin Ltd
73 Meg Drive
London, ON
CANADA N6E 2V2

Report Date: 2024/08/09
Report #: R8270193
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4O3011
Received: 2024/08/08, 10:32

Sample Matrix: Bulk
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Metals in Paint	1	2024/08/08	2024/08/09	CAM SOP-00408	EPA 6010D m

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, EPA, APHA or the Quebec Ministry of Environment.

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.

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.

Your Project #: 344346
Your C.O.C. #: N/A

Attention: Jarrett Deneau

Pinchin Ltd
73 Meg Drive
London, ON
CANADA N6E 2V2

Report Date: 2024/08/09
Report #: R8270193
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4O3011
Received: 2024/08/08, 10:32

Encryption Key

Bureau Veritas
09 Aug 2024 16:52:29

Please direct all questions regarding this Certificate of Analysis to:
Nilushi Mahathantila, Project Manager
Email: Nilushi.Mahathantila@bureauveritas.com
Phone# (905) 817-5700

==========

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Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Bureau Veritas Job #: C4O3011
Report Date: 2024/08/09

Pinchin Ltd
Client Project #: 344346
Sampler Initials: JD

ELEMENTS BY ATOMIC SPECTROSCOPY (BULK)

Bureau Veritas ID		ZYD131		
Sampling Date		2024/08/06 12:00		
COC Number		N/A		
	UNITS	**L0004, OFF-WHITE ON CONCRETE BLOCK,LOC:2,LIBRARY**	**RDL**	**QC Batch**
Metals				
Lead (Pb)	%	0.11	0.0010	9564816

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Bureau Veritas Job #: C4O3011
Report Date: 2024/08/09

Pinchin Ltd
Client Project #: 344346
Sampler Initials: JD

TEST SUMMARY

Bureau Veritas ID: ZYD131
Sample ID: L0004, OFF-WHITE ON CONCRETE BLOCK,LOC:2,LIBRARY
Matrix: Bulk

Collected: 2024/08/06
Shipped:
Received: 2024/08/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Metals in Paint	ICP	9564816	2024/08/08	2024/08/09	Jolly John

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GENERAL COMMENTS

Results relate only to the items tested.

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Bureau Veritas Job #: C4O3011
Report Date: 2024/08/09

QUALITY ASSURANCE REPORT

Pinchin Ltd
Client Project #: 344346
Sampler Initials: JD

			Matrix Spike		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9564816	Lead (Pb)	2024/08/09	91	75 - 125	<0.00010	%	NC	35	99	75 - 125

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

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

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

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

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

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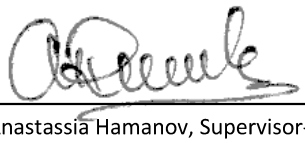
Bureau Veritas Job #: C4O3011
Report Date: 2024/08/09

Pinchin Ltd
Client Project #: 344346
Sampler Initials: JD

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Supervisor-Afternoon Shift

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C4O3011
2024/08/08 10:32

BUREAU VERITAS

6740 Campobello Road, Mississauga, Ontario L5N 2L8
Phone: 905-817-5700 Fax: 905-817-5779 Toll Free: 800-563-6266
CAM FCD-01191/6

CHAIN OF CUSTODY RECORD

Invoice Information	Report Information (if differs from invoice)	Project Information (where applicable)	Turnaround Time (TAT) Required
Company Name: Pinchin Ltd.	Company Name: Pinchin Ltd.	Quotation #:	☐ Regular TAT (5-7 days) Most analyses
Contact Name:	Contact Name: Jarrett Deneau	P.O. #/ AFE#:	PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS
Address:	Address: 73 Meg Drive	Project #: 344346	Rush TAT (Surcharges will be applied)
	London, ON	Site Location:	☒ 1 Day ☐ 2 Days ☐ 3-4 Days
Phone: Fax:	Phone: 226.234.3189 Fax:	Site #:	
Email: ap@pinchin.com	Email: jdeneau@pinchin.com	Site Location Province: ON	Date Required:
MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY		Sampled By: Jarrett Deneau	Rush Confirmation #:

Regulation 153	Other Regulations
☐ Table 1 ☐ Res/Park ☐ Med/ Fine	☐ CCME ☐ Sanitary Sewer Bylaw
☐ Table 2 ☐ Ind/Comm ☐ Coarse	☐ MISA ☐ Storm Sewer Bylaw
☐ Table 3 ☐ Agri/ Other	☐ PWQO Region
☐ Table	☐ Other (Specify)
FOR RSC (PLEASE CIRCLE) Y / N	☐ REG 558 (MIN. 3 DAY TAT REQUIRED)
	☐ REG 406 Table
Include Criteria on Certificate of Analysis: Y / N	

SAMPLES MUST BE KEPT COOL (< 10 °C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

SAMPLE IDENTIFICATION	DATE SAMPLED (YYYY/MM/DD)	TIME SAMPLED (HH:MM)	MATRIX	# OF CONTAINERS SUBMITTED	FIELD FILTERED (CIRCLE) Metals / Hg / CrVI	BTEX/ PHC F1	PHCs F2 - F4	VOCs	REG 153 METALS & INORGANICS	REG 153 ICPMS METALS	REG 153 METALS (Hg, Cr VI, ICPMS Metals, HWS - B)	Lead (Pb) in Paints	PCBs							HOLD- DO NOT ANALYZE
L0004, Off-white On Concrete Block,Loc:2,Library	2024/08/06	12:00	BULK	1								X								

Analysis Requested

LABORATORY USE ONLY

CUSTODY SEAL Y / N		COOLER TEMPERATURES
Present	Intact	
✓	✓	

COOLING MEDIA PRESENT: Y / (N)

COMMENTS

RELINQUISHED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	RECEIVED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	BV JOB #
Jarrett Deneau	2024/08/06	17:00		08/08/08	1032	

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NONT-2024-08-1526

APPENDIX II-C

PCB Analytical Certificates

Your Project #: 344346
Site Location: SHERWOOD
Your C.O.C. #: n/a

Attention: Hamza Shabbir

Pinchin Ltd
73 Meg Drive
London, ON
CANADA N6E 2V2

Report Date: 2024/07/15
Report #: R8235535
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4L2642
Received: 2024/07/12, 10:49

Sample Matrix: Solid
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Polychlorinated Biphenyl in Solids (1)	2	2024/07/13	2024/07/13	CAM SOP-00309	EPA 8082A m

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, EPA, APHA or the Quebec Ministry of Environment.

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.

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) Analysis was conducted according to Bureau Veritas method CAM SOP-00309 and modified where applicable based on the sample matrix. This test is not Standards Council of Canada accredited for this matrix.

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Your Project #: 344346
Site Location: SHERWOOD
Your C.O.C. #: n/a

Attention: Hamza Shabbir

Pinchin Ltd
73 Meg Drive
London, ON
CANADA N6E 2V2

Report Date: 2024/07/15
Report #: R8235535
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4L2642
Received: 2024/07/12, 10:49

Encryption Key

Bureau Veritas
15 Jul 2024 17:15:50

Please direct all questions regarding this Certificate of Analysis to:
Nilushi Mahathantila, Project Manager
Email: Nilushi.Mahathantila@bureauveritas.com
Phone# (905) 817-5700

==========

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Bureau Veritas Job #: C4L2642
Report Date: 2024/07/15

Pinchin Ltd
Client Project #: 344346
Site Location: SHERWOOD
Sampler Initials: JD

POLYCHLORINATED BIPHENYLS BY GC-ECD (SOLID)

Bureau Veritas ID		ZRZ520	ZRZ521		
Sampling Date		2024/07/09 12:00	2024/07/09 12:00		
COC Number		n/a	n/a		
	UNITS	**P0001,COMPOSITE CAULKING**	**P0002,COMPOSITE PAINT**	**RDL**	**QC Batch**
PCBs					
Aroclor 1262	mg/kg	<0.1	<0.1	0.1	9513364
Aroclor 1016	mg/kg	<0.1	<0.1	0.1	9513364
Aroclor 1221	mg/kg	<0.1	<0.1	0.1	9513364
Aroclor 1232	mg/kg	<0.1	<0.1	0.1	9513364
Aroclor 1242	mg/kg	0.1	<0.1	0.1	9513364
Aroclor 1248	mg/kg	<0.1	<0.1	0.1	9513364
Aroclor 1254	mg/kg	<0.1	<0.1	0.1	9513364
Aroclor 1260	mg/kg	<0.1	<0.1	0.1	9513364
Aroclor 1268	mg/kg	<0.1	<0.1	0.1	9513364
Total PCB	mg/kg	0.1	<0.1	0.1	9513364
Surrogate Recovery (%)					
Decachlorobiphenyl	%	92	97		9513364

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Bureau Veritas Job #: C4L2642
Report Date: 2024/07/15

Pinchin Ltd
Client Project #: 344346
Site Location: SHERWOOD
Sampler Initials: JD

TEST SUMMARY

Bureau Veritas ID: ZRZ520 **Collected:** 2024/07/09
Sample ID: P0001,COMPOSITE CAULKING **Shipped:**
Matrix: Solid **Received:** 2024/07/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Polychlorinated Biphenyl in Solids	GC/ECD	9513364	2024/07/13	2024/07/13	Farag Mansour

Bureau Veritas ID: ZRZ521 **Collected:** 2024/07/09
Sample ID: P0002,COMPOSITE PAINT **Shipped:**
Matrix: Solid **Received:** 2024/07/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Polychlorinated Biphenyl in Solids	GC/ECD	9513364	2024/07/13	2024/07/13	Farag Mansour

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

GENERAL COMMENTS

Results relate only to the items tested.

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Bureau Veritas Job #: C4L2642
Report Date: 2024/07/15

QUALITY ASSURANCE REPORT

Pinchin Ltd
Client Project #: 344346
Site Location: SHERWOOD
Sampler Initials: JD

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9513364	Decachlorobiphenyl	2024/07/13	128	30 - 130	104	30 - 130	115	%		
9513364	Aroclor 1016	2024/07/13					<0.1	mg/kg		
9513364	Aroclor 1221	2024/07/13					<0.1	mg/kg		
9513364	Aroclor 1232	2024/07/13					<0.1	mg/kg		
9513364	Aroclor 1242	2024/07/13					<0.1	mg/kg		
9513364	Aroclor 1248	2024/07/13					<0.1	mg/kg		
9513364	Aroclor 1254	2024/07/13					<0.1	mg/kg		
9513364	Aroclor 1260	2024/07/13	94	30 - 130	107	30 - 130	<0.1	mg/kg	8.4	50
9513364	Aroclor 1262	2024/07/13					<0.1	mg/kg		
9513364	Aroclor 1268	2024/07/13					<0.1	mg/kg		
9513364	Total PCB	2024/07/13	94	30 - 130	107	30 - 130	<0.1	mg/kg	8.4	50

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

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

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

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

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

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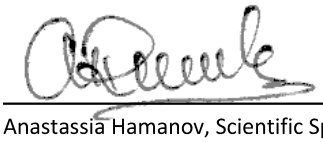
Bureau Veritas Job #: C4L2642
Report Date: 2024/07/15

Pinchin Ltd
Client Project #: 344346
Site Location: SHERWOOD
Sampler Initials: JD

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

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6740 Campobello Road, Mississauga, Ontario L5N 2L8
Phone: 905-817-5700 Fax: 905-817-5779 Toll Free: 800-563-6266
CAM FCD-01191/6

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Company Name: Pinchin Ltd.	Company Name: Pinchin Ltd.	Quotation #:	[X] Regular TAT (5-7 days) Most analyses
Contact Name:	Contact Name: Jarrett Deneau	P.O. #/ AFE#:	PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS
Address:	Address: 73 Meg Drive	Project #: 344346	Rush TAT (Surcharges will be applied)
	London, ON	Site Location: Sherwood	[ ] 1 Day [ ] 2 Days [ ] 3-4 Days
Phone: Fax:	Phone: 226.234.3189 Fax:	Site #:	
Email: ap@pinchin.com	Email: jdeneau@pinchin.com, hshabbir@pinchin.com	Site Location Province: ON	Date Required:
MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY		Sampled By: Jarrett Deneau	Rush Confirmation #:

Regulation 153	Other Regulations
[ ] Table 1 [ ] Res/Park [ ] Med/ Fine	[ ] CCME [ ] Sanitary Sewer Bylaw
[ ] Table 2 [ ] Ind/Comm [ ] Coarse	[ ] MISA [ ] Storm Sewer Bylaw
[ ] Table 3 [ ] Agri/ Other	[ ] PWQO Region
[ ] Table	[ ] Other (Specify)
FOR RSC (PLEASE CIRCLE) Y / N	[ ] REG 558 (MIN. 3 DAY TAT REQUIRED)
	[ ] REG 406 Table

Include Criteria on Certificate of Analysis: Y / N

SAMPLES MUST BE KEPT COOL (< 10 °C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

SAMPLE IDENTIFICATION	DATE SAMPLED (YYYY/MM/DD)	TIME SAMPLED (HH:MM)	MATRIX	# OF CONTAINERS SUBMITTED	FIELD FILTERED (CIRCLE) Metals / Hg / CrVI	BTEX/ PHC F1	PHCs F2 - F4	VOCs	REG 153 METALS & INORGANICS	REG 153 ICPMS METALS	REG 153 METALS (Hg, Cr VI, ICPMS Metals, HWS - B)	Lead (Pb) in Paints	PCBs	HOLD- DO NOT ANALYZE
P0001, Composite Caulking	2024/07/09	12:00	BULK	1									X	
P0002, Composite Paint	2024/07/09	12:00	BULK	1									X	

Analysis Requested

LABORATORY USE ONLY		
CUSTODY SEAL Y / N		COOLER TEMPERATURES
Present	Intact	
N	N	
COOLING MEDIA PRESENT: Y / (N)		

COMMENTS

RELINQUISHED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	RECEIVED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)
Jarrett Deneau	2024/07/11	17:00			

12-Jul-24 10:49
Nilushi Mahathantila
C4L2642

SBS ENV-916

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Your Project #: 344346
Site Location: SHERWOOD
Your C.O.C. #: n/a

Attention: Hamza Shabbir

Pinchin Ltd
73 Meg Drive
London, ON
CANADA N6E 2V2

Report Date: 2024/07/15
Report #: R8235535
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4L2642
Received: 2024/07/12, 10:49

Sample Matrix: Solid
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Polychlorinated Biphenyl in Solids (1)	2	2024/07/13	2024/07/13	CAM SOP-00309	EPA 8082A m

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, EPA, APHA or the Quebec Ministry of Environment.

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.

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) Analysis was conducted according to Bureau Veritas method CAM SOP-00309 and modified where applicable based on the sample matrix. This test is not Standards Council of Canada accredited for this matrix.

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Your Project #: 344346
Site Location: SHERWOOD
Your C.O.C. #: n/a

Attention: Hamza Shabbir

Pinchin Ltd
73 Meg Drive
London, ON
CANADA N6E 2V2

Report Date: 2024/07/15
Report #: R8235535
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4L2642
Received: 2024/07/12, 10:49

Encryption Key

Bureau Veritas
15 Jul 2024 17:15:50

Please direct all questions regarding this Certificate of Analysis to:
Nilushi Mahathantila, Project Manager
Email: Nilushi.Mahathantila@bureauveritas.com
Phone# (905) 817-5700

==========

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Bureau Veritas 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 Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

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Bureau Veritas Job #: C4L2642
Report Date: 2024/07/15

Pinchin Ltd
Client Project #: 344346
Site Location: SHERWOOD
Sampler Initials: JD

POLYCHLORINATED BIPHENYLS BY GC-ECD (SOLID)

Bureau Veritas ID		ZRZ520	ZRZ521		
Sampling Date		2024/07/09 12:00	2024/07/09 12:00		
COC Number		n/a	n/a		
	UNITS	**P0001,COMPOSITE CAULKING**	**P0002,COMPOSITE PAINT**	**RDL**	**QC Batch**
PCBs					
Aroclor 1262	mg/kg	<0.1	<0.1	0.1	9513364
Aroclor 1016	mg/kg	<0.1	<0.1	0.1	9513364
Aroclor 1221	mg/kg	<0.1	<0.1	0.1	9513364
Aroclor 1232	mg/kg	<0.1	<0.1	0.1	9513364
Aroclor 1242	mg/kg	0.1	<0.1	0.1	9513364
Aroclor 1248	mg/kg	<0.1	<0.1	0.1	9513364
Aroclor 1254	mg/kg	<0.1	<0.1	0.1	9513364
Aroclor 1260	mg/kg	<0.1	<0.1	0.1	9513364
Aroclor 1268	mg/kg	<0.1	<0.1	0.1	9513364
Total PCB	mg/kg	0.1	<0.1	0.1	9513364
Surrogate Recovery (%)					
Decachlorobiphenyl	%	92	97		9513364

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Bureau Veritas Job #: C4L2642
Report Date: 2024/07/15

Pinchin Ltd
Client Project #: 344346
Site Location: SHERWOOD
Sampler Initials: JD

TEST SUMMARY

Bureau Veritas ID: ZRZ520 **Collected:** 2024/07/09
Sample ID: P0001,COMPOSITE CAULKING **Shipped:**
Matrix: Solid **Received:** 2024/07/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Polychlorinated Biphenyl in Solids	GC/ECD	9513364	2024/07/13	2024/07/13	Farag Mansour

Bureau Veritas ID: ZRZ521 **Collected:** 2024/07/09
Sample ID: P0002,COMPOSITE PAINT **Shipped:**
Matrix: Solid **Received:** 2024/07/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Polychlorinated Biphenyl in Solids	GC/ECD	9513364	2024/07/13	2024/07/13	Farag Mansour

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

GENERAL COMMENTS

Results relate only to the items tested.

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Bureau Veritas Job #: C4L2642
Report Date: 2024/07/15

QUALITY ASSURANCE REPORT

Pinchin Ltd
Client Project #: 344346
Site Location: SHERWOOD
Sampler Initials: JD

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9513364	Decachlorobiphenyl	2024/07/13	128	30 - 130	104	30 - 130	115	%		
9513364	Aroclor 1016	2024/07/13					<0.1	mg/kg		
9513364	Aroclor 1221	2024/07/13					<0.1	mg/kg		
9513364	Aroclor 1232	2024/07/13					<0.1	mg/kg		
9513364	Aroclor 1242	2024/07/13					<0.1	mg/kg		
9513364	Aroclor 1248	2024/07/13					<0.1	mg/kg		
9513364	Aroclor 1254	2024/07/13					<0.1	mg/kg		
9513364	Aroclor 1260	2024/07/13	94	30 - 130	107	30 - 130	<0.1	mg/kg	8.4	50
9513364	Aroclor 1262	2024/07/13					<0.1	mg/kg		
9513364	Aroclor 1268	2024/07/13					<0.1	mg/kg		
9513364	Total PCB	2024/07/13	94	30 - 130	107	30 - 130	<0.1	mg/kg	8.4	50

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

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

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

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

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

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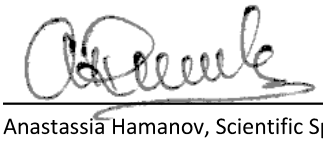
Bureau Veritas Job #: C4L2642
Report Date: 2024/07/15

Pinchin Ltd
Client Project #: 344346
Site Location: SHERWOOD
Sampler Initials: JD

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

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6740 Campobello Road, Mississauga, Ontario L5N 2L8
Phone: 905-817-5700 Fax: 905-817-5779 Toll Free: 800-563-6266
CAM FCD-01191/6

CHAIN OF CUSTODY RECORD

Invoice Information	Report Information (if differs from invoice)	Project Information (where applicable)	Turnaround Time (TAT) Required
Company Name: Pinchin Ltd.	Company Name: Pinchin Ltd.	Quotation #:	[X] Regular TAT (5-7 days) Most analyses
Contact Name:	Contact Name: Jarrett Deneau	P.O. #/ AFE#:	PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS
Address:	Address: 73 Meg Drive	Project #: 344346	Rush TAT (Surcharges will be applied)
	London, ON	Site Location: Sherwood	[ ] 1 Day [ ] 2 Days [ ] 3-4 Days
Phone: Fax:	Phone: 226.234.3189 Fax:	Site #:	
Email: ap@pinchin.com	Email: jdeneau@pinchin.com, hshabbir@pinchin.com	Site Location Province: ON	Date Required:
MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY		Sampled By: Jarrett Deneau	Rush Confirmation #:

Regulation 153	Other Regulations
[ ] Table 1 [ ] Res/Park [ ] Med/ Fine	[ ] CCME [ ] Sanitary Sewer Bylaw
[ ] Table 2 [ ] Ind/Comm [ ] Coarse	[ ] MISA [ ] Storm Sewer Bylaw
[ ] Table 3 [ ] Agri/ Other	[ ] PWQO Region
[ ] Table	[ ] Other (Specify)
FOR RSC (PLEASE CIRCLE) Y / N	[ ] REG 558 (MIN. 3 DAY TAT REQUIRED)
	[ ] REG 406 Table

Include Criteria on Certificate of Analysis: Y / N

SAMPLES MUST BE KEPT COOL (< 10 °C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

SAMPLE IDENTIFICATION	DATE SAMPLED (YYYY/MM/DD)	TIME SAMPLED (HH:MM)	MATRIX	# OF CONTAINERS SUBMITTED	FIELD FILTERED (CIRCLE) Metals / Hg / CrVI	BTEX/ PHC F1	PHCs F2 - F4	VOCs	REG 153 METALS & INORGANICS	REG 153 ICPMS METALS	REG 153 METALS (Hg, Cr VI, ICPMS Metals, HWS - B)	Lead (Pb) in Paints	PCBs	HOLD- DO NOT ANALYZE
P0001, Composite Caulking	2024/07/09	12:00	BULK	1									X	
P0002, Composite Paint	2024/07/09	12:00	BULK	1									X	

Analysis Requested

LABORATORY USE ONLY		
CUSTODY SEAL Y / N		COOLER TEMPERATURES
Present	Intact	
N	N	

COOLING MEDIA PRESENT: Y / (N)

COMMENTS

RELINQUISHED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	RECEIVED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)
Jarrett Deneau	2024/07/11	17:00			

12-Jul-24 10:49
Nilushi Mahathantila
C4L2642
SBS ENV-916

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APPENDIX III
Methodology

1.0 GENERAL

An investigation was conducted to identify the type of Hazardous Building Materials incorporated in the structure and its finishes.

Information regarding the location and condition of hazardous building materials encountered and visually estimated quantities were recorded. The locations of any samples collected were recorded on small-scale plans. As-built drawings and previous reports were referenced where provided.

Sample collection was conducted in accordance with our Standard Operating Procedures.

1.1 Asbestos

The investigation for asbestos included friable and non-friable asbestos-containing materials (ACM). A friable material is a material that when dry can be crumbled, pulverized or powdered by hand pressure, or a material that has already become crushed, pulverized, or powdered.

A separate set of samples was collected of each type of homogenous material suspected to contain asbestos. A homogenous material is defined by the US EPA as material that is uniform in texture and appearance, was installed at one time, and is unlikely to consist of more than one type or formulation of material. The homogeneous materials were determined by visual examination and available information on the phases of construction and prior renovations.

Samples were collected at a rate that is in compliance with the requirements of local regulations and guidelines. The sampling strategy was 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. In some cases, manufactured products such as asbestos cement pipe were visually identified without sample confirmation.

The asbestos analysis of select materials was completed using a stop-positive approach. Only one result meeting the regulated criteria was 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 stopped 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 were analyzed if no asbestos is detected. In some cases, all samples were analyzed in the sample set regardless of result.

The analysis was performed in accordance with Test Method EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials, July 1993.

Analytical results were compared to the following criteria:

Jurisdiction*	Friable	Non-Friable
Ontario	0.5%	0.5%

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. Additionally, these terms are used for materials which historically are known to not include asbestos in their manufacturing.

Asbestos materials were evaluated in order to make recommendations regarding any remedial work. The priority for remedial action was 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)
- 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)

1.2 Lead

Samples of distinctive paint finishes, and surface coatings present in more than a limited application, where removal of the paint is possible were collected. The samples were collected by scraping the painted finish to include base and covering applications.

Analysis for lead in paints or surface coatings was performed in accordance with EPA Method No. 3050B/Method No. 7420; flame atomic absorption.

Analytical results were compared to the following criteria.

Jurisdiction*	Units (%)	Units (ppm) / (mg/kg)
Ontario	0.1	1,000

Other lead building products (e.g. batteries, lead sheeting, flashing) were identified by visual observation only.

1.3 Silica

Building materials known to contain crystalline silica (e.g. concrete, cement, tile, brick, masonry, mortar) were identified by visual inspection only. Pinchin did not perform sampling of these materials for laboratory analysis of crystalline silica content.

1.4 Mercury

Building materials, products or equipment (e.g. thermostats, barometers, pressure gauges, lamp tubes), suspected to contain mercury were identified by visual inspection only. Dismantling of equipment suspected of containing mercury was not performed. Sampling of these materials for laboratory analysis of mercury content was not performed.

1.5 Polychlorinated Biphenyls

The potential for light ballast and oil filled transformers to contain PCBs was based on the age of the building, a review of maintenance records, and examination of labels or nameplates on equipment, where present and accessible. The information was compared to known ban dates of PCBs and Environment Canada publications.

Dry type transformers were presumed to be free of dielectric fluids and hence non-PCB.

Fluids (mineral oil, hydraulic, Aroclor or Askarel) in transformers or other equipment were not sampled for PCB content.

Caulking, sealants, or paints were sampled and submitted for PCB analysis following EPA 3550C/8082A.

Sample results are compared to the criteria of 50 mg/kg for solids as stated in the PCB Regulation, SOR/2008-273.

1.6 Visible Mould

The presence of mould or water damage was determined by visual inspection of exposed building surfaces. If any mould growth or water damage was concealed within building cavities it was not addressed in this assessment.

Template: Methodology for Hazardous Building Materials Assessment, HAZ, January 16, 2024

APPENDIX IV

Location Summary Report

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

LOCATIONS LIST

PINCHIN
1.855.PINCHIN www.pinchin.com

Client:Canadian Commercial Development
Site: 1225 Wonderland Road North, London, ON
Building Name: London Library Sherwood Mall Branch
Survey Date:
Last Re-Assessment:
Building Phases: A: 1970 Original

Location No.	Name or Description	Area ft^2	Floor No.	Bldg. Phase	Notes
1	Entrance	250	1	A	Solid ceiling. Bulkhead interior partially visible from Hallway.
2	Library	8000	1	A	
3	Hallway	1300	1	A	
4	Offices	1000	1	A	
5	Exterior	0	1	A	

APPENDIX V

Hazardous Materials Summary Report / Sample Log

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

PINCHIN
1.855.PINCHIN www.pinchin.com

Client:Canadian Commercial Development **Site: 1225 Wonderland Road North, London, ON** **Building Name: London Library Sherwood Mall Branch** **Survey Date:**

HAZMAT	Sample No	System/Component/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive	Friability
Asbestos	S0001 A	Wall, Ceiling, Wall | Bulkhead | Drywall And Joint Compound |	1	A	0	1450	0	0	Chrysotile	Yes	NF
Asbestos	S0002 ABC	Ceiling | | Texture Coat | White Stipple	1	A	0	250	0	0	Chrysotile	Yes	F
Asbestos	S0003 AC	Wall, Floor, Wall | Base | Adhesive/mastic | Yellow-tan	1,2,4	A	400	3000	0	0	None Detected	No	
Asbestos	S0005 ABC	Wall | Expansion Joint | Caulking | Brown	1	A	40	0	0	0	None Detected	No	
Asbestos	S0006 ABC	Floor, Wall | Base | Thin-set | Grey	1	A	20	250	0	0	None Detected	No	
Asbestos	S0007 ABC	Wall | Door Frame | Caulking | Dark Brown	1,3	A	40	0	0	0	None Detected	No	
Asbestos	S0008 ABC	Floor | | Vinyl Floor Tile And Mastic | 12x12 Yellow With White Smudges	2,3,4	A	0	9000	0	0	None Detected	No	
Asbestos	S0009 ABC	Ceiling | | Ceiling Tiles (lay-in) | 24x48 Sharp Horizontal Fissures And Pinholes	2,3	A	0	1000	0	0	None Detected	No	
Asbestos	S0010 ABC	Wall | Window | Sealant | Black Butyl	2,3,4	A	390	0	0	0	None Detected	No	
Asbestos	S0011 ABC	Wall | Door Frame | Caulking | Grey	5	A	17	0	0	0	None Detected	No	
Asbestos	S0012 ABCDE	Ceiling, Wall, Ceiling, Wall | | Drywall And Joint Compound |	2,3,4	A	0	24100	0	0	None Detected	No	
Asbestos	S0013 ABC	Piping | Sprinkler | Sealant | Beige	2,3,4	A	700	0	0	0	None Detected	No	
Asbestos	V9500	Piping | | Cement Product | White Transite	1,3	A	80	0	0	0	Presumed Asbestos	Yes	NF
Asbestos	V0000	Ceiling | | Ceiling Tiles (lay-in) | 24x48 Oblong Fissures And Pinholes	3,4	A	0	2300	0	0	Non Asbestos	No	
Paint	L0001	Wall | Drywall And Joint Compound | Beige	1,3,4	A	0	2400	0	0		No	-
Paint	L0002	Wall | Drywall And Joint Compound | Brown	2	A	0	0	0	100		No	-
Paint	L0003	Wall | Masonry | Grey	5	A	0	0	0	100		No	-
Paint	L0004	Wall | Masonry | Off-white On Concrete Block	2	A	0	0	0	100	Lead (High)	Yes	-
Lead Product	V9000	Batteries In Emer. Lights	2,3	A	0	0	5	0	Lead Product	Yes	-
PCB	P0001	Caulking | Composite Caulking	1	A	0	0	0	100	-	No	-
PCB	P0002	Paint | Composite Paint	1	A	0	0	0	100	-	No	-
PCB	V9500	Light Ballasts	2	A	0	0	2	0	Presumed PCB	Yes	-
PCB	V0000	Light Ballasts	2,3,4	A	0	0	126	0	-	No	-
Hg	V9000	Light Fixture	2,3,4	A	0	0	142	0	Hg	Yes	-
Hg	V9000	Mercury Vapour Lamp	5	A	0	0	4	0	Hg	Yes	-
Hg	V0000	Light Fixture	2	A	0	0	340	0	-	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
[Loc. No.]	Abated Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

NF	Non Friable material.
F	Friable material
PF	Potentially Friable material

APPENDIX VI

HMIS All Data Report

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

ALL DATA REPORT

PINCHIN
1.855.PINCHIN www.pinchin.com

Client: Canadian Commercial Development | **Site: 1225 Wonderland Road North, London, ON** | **Building Name: London Library Sherwood Mall Branch**

Location: #1 : Entrance | **Floor: 1** | **Room #:** | **Area (sqft): 250**

Survey Date: 2024-07-09 | **Last Re-Assessment: 0000-00-00**

ASBESTOS

System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Ceiling		Drywall and joint compound		Texture Finish - Non Friable	D	N		250			SF	V0001	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Ceiling		Texture Coat, White stipple			C	Y		250			SF	S0002ABC	Chrysotile	0.5-5%	Confirmed Asbestos	F
Duct	Not Found															
Floor		Concrete (poured)		Ceramic Tiles	D	N										
Floor		Ceramic Tiles			A	Y										
Floor		Thin-set, Grey		Ceramic Tiles	D	N		250			SF	S0006B	None Detected	N.D.	None	
Piping[1]		Cement Product, White transite			D	N		50			LF	V9500	Presumed Asbestos		Presumed Asbestos	NF
Piping	Not Accessible															
Structure																
Wall		Drywall and joint compound			A	Y		800			SF	V0001	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Wall	Base	Ceramic Tiles			A	Y										
Wall	Base	Adhesive/mastic, Yellow-tan		Rubber	D	N		100			LF	S0003A	None Detected	N.D.	None	
Wall	Base	Rubber, Brown			A	Y										
Wall	Base	Thin-set, Grey		Ceramic Tiles	D	N		20			LF	S0006AC	None Detected	N.D.	None	
Wall	Bulkhead	Drywall and joint compound			C	Y		400			SF	S0001A	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Wall	Door Frame	Caulking, Dark brown			A	Y		20			LF	S0007ABC	None Detected	N.D.	None	
Wall	Expansion Joint	Caulking, Brown			A	Y		40			LF	S0005ABC	None Detected	N.D.	None	

Solid ceiling. Bulkhead interior partially visible from Hallway.
1 - In drywall bulkhead, observed from hallway.

Client: Canadian Commercial Development | **Site: 1225 Wonderland Road North, London, ON** | **Building Name: London Library Sherwood Mall Branch**

Location: #1 : Entrance | **Floor: 1** | **Room #:** | **Area (sqft): 250**

Survey Date: 2024-07-09 | **Last Re-Assessment: 0000-00-00**

PAINT

System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard
Wall[1]	Drywall and joint compound	800		SF	L0001	Beige	Pb: 0.00035 %	No

Solid ceiling. Bulkhead interior partially visible from Hallway.
1 - Red and green accents

Client: Canadian Commercial Development | **Site: 1225 Wonderland Road North, London, ON** | **Building Name: London Library Sherwood Mall Branch**

Location: #1 : Entrance | **Floor: 1** | **Room #:** | **Area (sqft): 250**

Survey Date: 2024-07-09 | **Last Re-Assessment: 0000-00-00**

PCB						
Component	**Quantity**	**Unit**	**Sample**	**Sample Description**	**Amount**	**PCB**
Caulking	100	%	P0001	Composite caulking	0.1 mg/kg	No
Paint	100	%	P0002	Composite paint	<0.1 mg/kg	No

Solid ceiling. Bulkhead interior partially visible from Hallway.

Client: Canadian Commercial Development | **Site: 1225 Wonderland Road North, London, ON** | **Building Name: London Library Sherwood Mall Branch**

Location: #2 : Library | **Floor: 1** | **Room #:** | **Area (sqft): 8000**

Survey Date: 2024-07-09 | **Last Re-Assessment: 0000-00-00**

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Ceiling[1]		Ceiling Tiles (lay-in), 24x48 sharp horizontal fissures and pinholes			C	N		750			SF	S0009C	None Detected	N.D.	None	
Ceiling		Ceiling Tiles (lay-in), 24x48 drywall			C	N										
Ceiling		Drywall and joint compound			C	Y		1000			SF	V0012	None Detected	N.D.	None	
Duct		Not Insulated			C	N										
Floor		Concrete (poured)		Vinyl Floor Tile and Mastic	D	N										
Floor[2]		Vinyl Floor Tile and Mastic, 12x12 yellow with white smudges			A	Y		700			SF	S0008AC	None Detected	N.D.	None	
Floor		Vinyl Floor Tile and Mastic			A	Y		3000			SF	V0003	None Detected	N.D.	None	
Floor		Carpet			A	Y										
Floor		Floor Levelling Compound		Vinyl Floor Tile and Mastic	D	N		3700			SF	V0008	None Detected	N.D.	None	
Mechanical Equipment	Domestic Hot Water Tank	Fibreglass		Metal	A	Y										
Other	Sink	Not Insulated		Paint	A	Y										
Other	Sink	Not Insulated		Paint	A	Y										
Piping	Abandoned Pipe	Fibreglass		Paper	C	N										
Piping	Domestic Water (hot And Cold)	Not Insulated			B	Y										
Piping	Sprinkler	Not Insulated			C	N										
Piping	Sprinkler	Sealant, Beige			C	N		500			LF	S0013A	None Detected	N.D.	None	
Wall[3]		Drywall and joint compound			A	Y		18550			SF	S0012ADE	None Detected	N.D.	None	
Wall		Styrofoam, Pink polystyrene		Drywall and joint compound	D	N										
Wall[4]		Concrete Block			A	Y										
Wall		Concrete Block		Styrofoam	D	N										
Wall	Base	Adhesive/mastic, Yellow-tan		Rubber	D	N		100			LF	V0003	None Detected	N.D.	None	
Wall	Base	Rubber, Brown			A	Y										
Wall	Window	Sealant, Black butyl			A	Y		20			LF	S0010C	None Detected	N.D.	None	

1 - Meeting room
2 - Sample taken from book return room.
3 - Sample taken from book return room.
4 - Interior wall of mechanical closet. Hollow core.

Client: Canadian Commercial Development **Site: 1225 Wonderland Road North, London, ON** **Building Name: London Library Sherwood Mall Branch**
Location: #2 : Library **Floor: 1** **Room #:** **Area (sqft): 8000**
Survey Date: 2024-07-09 **Last Re-Assessment: 0000-00-00**

PAINT								
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard
Wall	Drywall and joint compound	100		%	L0002	Brown	Pb: <0,00058 %	No
Wall	Masonry	100		%	L0004	Off-white on concrete block	Pb: 0.11 %	Lead (High)

Client: Canadian Commercial Development **Site: 1225 Wonderland Road North, London, ON** **Building Name: London Library Sherwood Mall Branch**
Location: #2 : Library **Floor: 1** **Room #:** **Area (sqft): 8000**
Survey Date: 2024-07-09 **Last Re-Assessment: 0000-00-00**

PB PRODUCTS				
Component	Quantity	Unit	Sample	Hazard
Batteries In Emer. Lights	2	EA	V9000	Yes

Client: Canadian Commercial Development **Site: 1225 Wonderland Road North, London, ON** **Building Name: London Library Sherwood Mall Branch**
Location: #2 : Library **Floor: 1** **Room #:** **Area (sqft): 8000**
Survey Date: 2024-07-09 **Last Re-Assessment: 0000-00-00**

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture	38	EA	V9000	Yes
Light Fixture	340	EA	V0000	

Client: Canadian Commercial Development **Site: 1225 Wonderland Road North, London, ON** **Building Name: London Library Sherwood Mall Branch**
Location: #2 : Library **Floor: 1** **Room #:** **Area (sqft): 8000**
Survey Date: 2024-07-09 **Last Re-Assessment: 0000-00-00**

PCB						
Component	Quantity	Unit	Sample	Sample Description	Amount	PCB
Light Ballasts	10	EA	V0000			No
Light Ballasts[1]	2	EA	V9500			Presumed
Light Ballasts	90	EA	V0000			No

1 - T12s

Client: Canadian Commercial Development **Site: 1225 Wonderland Road North, London, ON** **Building Name: London Library Sherwood Mall Branch**
Location: #3 : Hallway **Floor: 1** **Room #:** **Area (sqft): 1300**
Survey Date: 2024-07-09 **Last Re-Assessment: 0000-00-00**

ASBESTOS

System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Ceiling[1]		Ceiling Tiles (lay-in), 24x48 oblong fissures and pinholes			C	Y		1300			SF	V0000	Non-Asbestos		None	
Ceiling		Ceiling Tiles (lay-in), 24x48 sharp horizontal fissures and pinholes			C	N		250			SF	S0009AB	None Detected	N.D.	None	
Duct	Supply Air	Fibreglass		Foil Face	C	N										
Floor		Concrete (poured)		Vinyl Floor Tile and Mastic	D	N										
Floor		Vinyl Floor Tile and Mastic			A	Y		1300			SF	S0008B	None Detected	N.D.	None	
Floor		Floor Levelling Compound		Vinyl Floor Tile and Mastic	D	N		1300			SF	V0008	None Detected	N.D.	None	
Piping		Cement Product, White transite			C	N		30			LF	V9500	Presumed Asbestos		Presumed Asbestos	NF
Piping	Sprinkler	Not Insulated			C	N										
Piping	Sprinkler	Sealant, Beige			C	N		100			LF	S0013B	None Detected	N.D.	None	
Structure	Beam Deck Joist	Steel			C	N										
Wall		Drywall and joint compound			A	Y		2300			SF	V0012	None Detected	N.D.	None	
Wall	Door Frame	Caulking, Dark brown			A	Y		20			LF	V0007	None Detected	N.D.	None	
Wall	Window	Sealant, Black butyl			A	Y		350			LF	S0010A	None Detected	N.D.	None	

1 - Date stamp: 02/11/05

Client: Canadian Commercial Development **Site: 1225 Wonderland Road North, London, ON** **Building Name: London Library Sherwood Mall Branch**
Location: #3 : Hallway **Floor: 1** **Room #:** **Area (sqft): 1300**
Survey Date: 2024-07-09 **Last Re-Assessment: 0000-00-00**

PAINT

System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard
Wall[1]	Drywall and joint compound	800		SF	V0001	Beige	Pb: 0.00035 %	No

1 - Red and green accents

Client: Canadian Commercial Development **Site: 1225 Wonderland Road North, London, ON** **Building Name: London Library Sherwood Mall Branch**
Location: #3 : Hallway **Floor: 1** **Room #:** **Area (sqft): 1300**
Survey Date: 2024-07-09 **Last Re-Assessment: 0000-00-00**

PB PRODUCTS

Component	Quantity	Unit	Sample	Hazard
Batteries In Emer. Lights	3	EA	V9000	Yes

Client: Canadian Commercial Development | **Site: 1225 Wonderland Road North, London, ON** | **Building Name: London Library Sherwood Mall Branch**
Location: #3 : Hallway | **Floor: 1** | **Room #:** | **Area (sqft): 1300**
Survey Date: 2024-07-09 | **Last Re-Assessment: 0000-00-00**

MERCURY				
Component	**Quantity**	**Unit**	**Sample**	**Hazard**
Light Fixture	44	EA	V9000	Yes

Client: Canadian Commercial Development | **Site: 1225 Wonderland Road North, London, ON** | **Building Name: London Library Sherwood Mall Branch**
Location: #3 : Hallway | **Floor: 1** | **Room #:** | **Area (sqft): 1300**
Survey Date: 2024-07-09 | **Last Re-Assessment: 0000-00-00**

PCB						
Component	**Quantity**	**Unit**	**Sample**	**Sample Description**	**Amount**	**PCB**
Light Ballasts	11	EA	V0000			No

Client: Canadian Commercial Development **Site: 1225 Wonderland Road North, London, ON** **Building Name: London Library Sherwood Mall Branch**

Location: #4 : Offices **Floor: 1** **Room #:** **Area (sqft): 1000**

Survey Date: 2024-07-09 **Last Re-Assessment: 0000-00-00**

ASBESTOS

System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Ceiling[1]		Ceiling Tiles (lay-in), 24x48 oblong fissures and pinholes			C	Y		1000			SF	V0000	Non-Asbestos		None	
Ceiling		Drywall and joint compound		Ceiling Tiles (lay-in)	C	N		250			SF	S0012C	None Detected	N.D.	None	
Duct	Supply Air	Fibreglass		Foil Face	C	N										
Floor		Concrete (poured)		Vinyl Floor Tile and Mastic	D	N										
Floor[2]		Vinyl Floor Tile and Mastic			A	Y		1000			SF	V0008	None Detected	N.D.	None	
Floor		Floor Levelling Compound		Vinyl Floor Tile and Mastic	D	N		1000			SF	V0008	None Detected	N.D.	None	
Piping	Sprinkler	Not Insulated			C	N										
Piping	Sprinkler	Sealant, Beige			C	N		100			LF	S0013C	None Detected	N.D.	None	
Structure	Beam Deck Joist	Steel			C	N										
Wall		Drywall and joint compound			A	Y		2000			SF	S0012B	None Detected	N.D.	None	
Wall	Base	Adhesive/mastic, Yellow-tan		Rubber	D	N		200			LF	S0003C	None Detected	N.D.	None	
Wall	Window	Sealant, Black butyl			A	Y		20			LF	S0010B	None Detected	N.D.	None	

1 - Date stamp: 02/11/05
2 - Wax coating slightly alters colour.

Client: Canadian Commercial Development **Site: 1225 Wonderland Road North, London, ON** **Building Name: London Library Sherwood Mall Branch**

Location: #4 : Offices **Floor: 1** **Room #:** **Area (sqft): 1000**

Survey Date: 2024-07-09 **Last Re-Assessment: 0000-00-00**

PAINT

System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard
Wall[1]	Drywall and joint compound	800		SF	V0001	Beige	Pb: 0.00035 %	No

1 - Red and green accents

Client: Canadian Commercial Development **Site: 1225 Wonderland Road North, London, ON** **Building Name: London Library Sherwood Mall Branch**

Location: #4 : Offices **Floor: 1** **Room #:** **Area (sqft): 1000**

Survey Date: 2024-07-09 **Last Re-Assessment: 0000-00-00**

MERCURY

Component	Quantity	Unit	Sample	Hazard
Light Fixture	60	EA	V9000	Yes

Client: Canadian Commercial Development | **Site: 1225 Wonderland Road North, London, ON** | **Building Name: London Library Sherwood Mall Branch**

Location: #4 : Offices | **Floor: 1** | **Room #:** | **Area (sqft): 1000**

Survey Date: 2024-07-09 | **Last Re-Assessment: 0000-00-00**

PCB						
Component	**Quantity**	**Unit**	**Sample**	**Sample Description**	**Amount**	**PCB**
Light Ballasts	15	EA	V0000			No

Client: Canadian Commercial Development **Site: 1225 Wonderland Road North, London, ON** **Building Name: London Library Sherwood Mall Branch**
Location: #5 : Exterior **Floor: 1** **Room #:** **Area (sqft): 0**
Survey Date: 2024-07-09 **Last Re-Assessment: 0000-00-00**

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Wall		Masonry			A	Y										
Wall	Door Frame	Caulking			A	Y		17			LF	S0011ABC	None Detected	N.D.	None	

Client: Canadian Commercial Development **Site: 1225 Wonderland Road North, London, ON** **Building Name: London Library Sherwood Mall Branch**
Location: #5 : Exterior **Floor: 1** **Room #:** **Area (sqft): 0**
Survey Date: 2024-07-09 **Last Re-Assessment: 0000-00-00**

PAINT								
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard
Wall	Masonry	100		%	L0003	Grey	Pb: 0.00029 %	No

Client: Canadian Commercial Development **Site: 1225 Wonderland Road North, London, ON** **Building Name: London Library Sherwood Mall Branch**
Location: #5 : Exterior **Floor: 1** **Room #:** **Area (sqft): 0**
Survey Date: 2024-07-09 **Last Re-Assessment: 0000-00-00**

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Mercury Vapour Lamp	4	EA	V9000	Yes

Legend:

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

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage
LF	Linear feet

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material
Pb	Lead
Hg	Mercury
As	Arsenic
Cr	Chromium

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

Visible	
Y	The material is visible when standing on the floor of the room, without the removal or opening of other building components (e.g. ceiling tiles or access panels).
N	The material is not visible to view when standing on the floor of the room and requires the removal of a building component (e.g. ceilings tiles or access panels) to view and access. Includes rarely entered crawlspaces, attic spaces, etc. Observations will be limited to the extent visible from the access points.
L	The material is partially visible to view when standing on the floor of the room and requires the removal of a building component (e.g. ceiling system or access panels) to view completely and access. Includes partially viewed access points to crawlspaces, attic spaces, etc. without entering. Observations are limited to the extent visible from the access points.

Air Plenum	
Yes or No	The material is in a return air plenum or in a direct airstream or there is evidence of air erosion (e.g. duct for heating or cooling blowing directly on or across an ACM). This field is only completed where Air Plenum consideration is required by regulation.

Colour Coding	
	The material is a hazardous material, either by analytical results or by visible identification.
	The material is presumed to be a hazardous material, based on visual appearance, and was not sampled due to limited access or the non-destructive nature of sampling.