



Q&A #2 and ADDENDUM #2

Date: January 31, 2022

Project: Renovation of Building 26 – Accommodation Fit-Up – Central Experimental Farm

La version française se trouve à la page suivante

Bidders must make sure that their bids are based on the latest version of the tender documents published and take into consideration the following amendments and information, including any information provided on amendments or Q&A previously published for this project.

Bidders that do not comply with this requirement will be discarded.

Q&A #2

Q1: Who is responsible to apply and pay for the Building Permit?

A1: Contractor is responsible to pay for any permits.

Q2: Is the GC responsible for Voice and Data?

A2: The contractor is **not** responsible for the Voice and Data.

Q3: Is there a DSR? Will Asbestos Abatement be a concern?

A3: According to the 2021 Asbestos Reassessment Building 26 does not have any asbestos. Door D1 and frame has been tested and contains lead paint.

Q4: Is there a Geo-Tech or Soils report?

A4 : No

Q5 a): As mentioned in the tender documents, new millwork is to be supplied and installed.

A5 a): Correct, contractor to supply all new millwork.

Q5 b): It was mentioned at the job showing that the contractor was not responsible for this part of the scope.

A5 b): At the job showing it was mentioned that AAFC would supply desks and chairs “furniture”.

Q6: Can BX wire be used for lighting and receptacles as walls and ceilings appear to all be drywall?

A6: Concealed BX cable is acceptable in the walls and ceilings.



Q7: What is spec for baseboard heater in bathroom?

A7: OUELLET HEAVY DUTY BASEBOARD HEATER SERIES OPR WITHOUT PEDESTAL. COLOUR OPTION "METALLIC SILVER". 240VOLT. PROVIDE WALL THERMOSTAT WITH CONTROL KNOB AND CONNECT.

Q8: Please Confirm that the Contractor will not supply and install new flooring in the Basement

A8: There is no new flooring to be installed in the basement.

Q9: On drawing A-100 (Existing Basement Plan) note #5 shows to remove existing brick wall, but on the Proposed basement plan, there is no finishing showing for that location. Can you please review and let us know?

A9: Patch and make good floor slab per item 12, General Construction Notes (sheet A-000). At ceiling, please refer to Sheet A-100, detail drawing 4, keynote 3.

ADDENDUM #2:

1- DSR Report and Addition to the Specifications – Appendix E, the following text and the attached report should be considered as an addition to this tender :

«Ensure that work area is well ventilated, and measures are employed to limit dust generation, during renovation or demolition work that may disturb the lead based paints. All work should be completed following the Ministry of Labour “Guideline –Lead on Construction Projects

Waste generated from the renovations activities that contain painted surfaces must undergo Toxicity characteristic Leaching Procedure testing in order to classify the waste. If the concentration of lead exceeds that of the leachate quality criteria then waste must be classified as hazardous and must be disposed of at a landfill that accepts hazardous waste in accordance with O. Reg 347, as amended.

TCLP sampling to be conducted in accordance with Ontario Provincial Standard Specification 911.»

All other terms and conditions remain the same



Q&R #2 et ADDENDUM #2

Date: 31 janvier 2022

Projet: Rénovation de l'Édifice 26 – Travaux d'aménagement des installations – Ferme expérimentale centrale

The English version can be found on the previous page.

Les soumissionnaires doivent s'assurer que leurs propositions soient basées sur la version la plus récente des documents de soumission publiés et prennent en considération les informations ci-dessous, incluant toute information déjà publiée lors des amendements ou Q&Rs antérieurs.

Les propositions ne respectant pas cette exigence seront rejetées.

Q&R#2

Q1: Qui est responsable de la demande et du paiement du permis de construction?

R1: Le permis de construction est la responsabilité du contracteur.

Q2: Le GC est-il responsable de la voix et des données?

R2: Le contracteur **n'est pas** responsable de la voix et des données.

Q3: Existe-t-il un "DSR" ? La réduction de l'amiante sera-t-elle une préoccupation?

R3: Selon la réévaluation de l'amiante de 2021, le bâtiment 26 ne contient pas d'amiante. La porte D1 et le cadre ont été testés et contiennent de la peinture au plomb.

Q4: Existe-t-il un rapport Géo-Tech ou de terres?

R4 : Non.

Q5 a): Comme mentionné dans les documents d'appel d'offres, de nouvelles menuiseries doivent être fournies et installées.

R5 a): Oui, l'entrepreneur doit fournir et installer toute la menuiserie.

Q5 b): Il a été mentionné lors de la visite de site que l'entrepreneur n'était pas responsable de cette partie des travaux.

R5 b) : Lors du visite de site, il a été mentionné qu'AAC fournirait des bureaux et des chaises "meubles".



Q6: Peut-on utiliser du fil BX pour l'éclairage et les prises de courant puisque les murs et les plafonds semblent tous être des cloisons sèches?

R6: Le câble BX dissimulé est acceptable dans les murs et les plafonds.

Q7: Quelle est la spécification pour les plinthes chauffantes dans la salle de bain?

R7: OUELLET PLINTHE CHAUFFANTE SÉRIE OPR SANS PIÉDESTAL. OPTION DE COULEUR "ARGENT ÉTOILÉ". 240VOLT. FOURNIR UN THERMOSTAT MURAL AVEC BOUTON DE COMMANDE ET RACCORDER.

Q8: Veuillez confirmer que l'entrepreneur ne fournira pas et n'installera pas de nouveaux revêtements de plancher au sous-sol.

R8: Il n'y a pas de nouveau revêtement de sol à installer.

Q9 : Sur le dessin A-100 (plan du sous-sol existant), la note 5 indique qu'il faut enlever le mur de briques existant, mais sur le plan du sous-sol proposé, aucune finition n'est indiquée à cet endroit. Pouvez-vous s'il vous plaît examiner et nous faire savoir ?

R9 : Rapiécer et remettre à neuf la dalle de plancher selon le point 12, Notes Générales - Construction (feuille A-000). Au plafond, veuillez-vous reporter à la feuille A-100, dessin de détail 4, note clé 3.

ADDEMDUM #2 :

1-*Rapport DSR et précision à ajouter au Devis – Annexe E, le texte suivant et le rapport ci-joint, doivent être considérés comme faisant partie intégrante de l'invitation à soumissionner :

« Assurez-vous que l'espace de travail est bien aéré et que des mesures sont prises pour limiter la production de poussière pendant les travaux de rénovation ou de démolition susceptibles de perturber les peintures à base de plomb. Tous les travaux doivent être effectués conformément à la directive du ministère du Travail intitulée « Le plomb sur les projets de construction ».

Les déchets produits dans le cadre des activités de rénovation qui contiennent des surfaces peintes doivent être soumis à un test de Procédure de caractérisation de toxicité dans le lixiviat (TCLP) visant à classer les déchets. Si la concentration de plomb dépasse les critères de qualité du lixiviat, les déchets doivent être classés comme dangereux et doivent être éliminés dans un dépôt de déchets dangereux, conformément au *règlement de l'Ontario 347*, tel que modifié.

L'échantillonnage pour la TCLP doit être effectué conformément à la norme provinciale de l'Ontario 911. »

***Le rapport DSR est en version anglaise uniquement.**

Toutes les autres conditions et exigences demeurent inchangées.

22 December 2021

Project No. 21506570

Rafael Soto Salinas, Junior Project Officer

Agriculture and Agri-Food Canada
960 Carling Avenue
K.W. Neatby Building 20, Room 1127
Ottawa Ontario
K1A 0C6

PROJECT-SPECIFIC PAINT AND MORTAR ASSESSMENT AT BUILDING 26 OF THE CENTRAL EXPERIMENTAL FARM, IN OTTAWA, ONTARIO

Mr. Soto Salinas,

Golder Associates Ltd. (Golder) was retained by Agriculture and Agri-Food Canada (AAFC) to conduct a paint and mortar assessment for select areas at Building 26 of the Central Experimental Farm in Ottawa, Ontario (the "Site").

Project Understanding

Based on communication with AAFC and the Site reconnaissance between 29 November and 2 December 2021, renovations are planned for Building 26 in the near future. A designated substances survey had already been completed by others; however, a suspected lead-containing paint and suspected asbestos-containing mortar assessment was required to address data gaps.

The Site assessment was completed on 17 December 2021, by Golder Environmental, Health and Safety (EHS) Consultant, Anne Yee. Site work was conducted in accordance with standards outlined in the Ontario *Occupational Health and Safety Act*, R.S.O. 1990, Chapter O.1, as amended (OHSA), and Golder's project-specific Health and Safety Plan.

SCOPE OF WORK

Based on drawings provided by AAFC and the Site reconnaissance between 29 November and 2 December 2021, the Project Areas are understood to consist of the following areas where suspected asbestos-containing materials (ACMs) and suspected lead-containing paints (LCPs) were observed:

- Basement partition wall between storage rooms B-5 and B-6 – brick wall mortar
- Front door - door frame (green paint) and overhang (dark green) paints
- Ground floor reception/foyer – wall (dark blue-grey paint)
- Ground floor room off the reception/foyer – wall (white paint)
- Ground floor room off the kitchen – wall (white paint)

- Ground floor washroom – wall (white paint)
- Second floor office room 200 – wall (white paint)
- Second floor office room 201 – wall (white paint)
- Second floor staff area kitchenette area 202 – wall (white paint)
- Second floor conference room 203 – wall (white paint)
- Second floor office room 204 – wall (white paint)

Golder's project-specific scope of work was limited to the following:

- Developing a Site-specific Health and Safety Plan for the project.
- Conducting a project-specific paint and mortar assessment of the selected Project Areas, based on information provided by AAFC. The assessment will be conducted in accordance with the COHSR, the PSPC *Asbestos Management Standard*, and Section 30 of the OHSA.
- Collecting representative bulk samples of suspected LCPs and suspected asbestos-containing mortar and submitting these samples to an independent accredited laboratory for 24-hour turnaround time (TAT) analysis, as requested by AAFC.
- Preparing one (1) final electronic (PDF) report for the areas assessed (in English only), including a photo log of the sampled materials, and recommendations for removal and/or management of confirmed ACMs and/or LCPs in the context of the project, as applicable.

All work was conducted by members of Golder's EHS team under the direction of a Canadian Registered Safety Professional (CRSP) or a Certified Industrial Hygienist (CIH), as needed.

REGULATORY REQUIREMENTS

The Site is federally regulated, and therefore worker exposure to chemical agents is regulated under the *Canada Occupational Health and Safety Regulations*, SOR/86-304 (COHSR) made under the *Canada Labour Code*, Part II (CLC-II). In addition, the general duty clause of CLC-II requires employers to ensure that the health and safety of their employees is protected.

The COHSR, Part X – Hazardous Substances, lists prescribed requirements for the control of hazardous substances in federally regulated workplaces. Specifically, Section 124 of the CLC-II requires the employer to ensure that the health and safety at work of every person employed by the employer is protected. Furthermore, Section 10.19(1) of the CLC-II requires the employer to ensure that worker exposure to chemical agents do not exceed the recommended limits of the American Conference of Governmental Industrial Hygienists (ACGIH) publication titled *Threshold Limit Values (TLVs) and Biological Exposure Indices*, dated 1994-1995, as amended from time to time.

Designated substances defined by Ontario Regulation 490/09: *Designated Substances* (O. Reg. 490/09), made under the OHSA, include: acrylonitrile, arsenic, asbestos, benzene, coke oven emissions, ethylene oxide, isocyanates, lead, mercury, silica, and vinyl chloride. Although designated substances are not defined under federal regulations, they are included to meet project requirements.

Under Section 30 of the OHSA, before beginning a project, the owner shall determine whether any designated substances are present at each project site and shall prepare a list of all designated substances that are present at each site. The assessment and reporting were also performed to meet the requirements of Ontario Regulation 278/05: *Designated Substance – Asbestos on Construction Projects and in Building Repair Operations*, as amended (O. Reg. 278/05), made under the OHSA.

Further detail regarding regulatory requirements and guidelines are included as Attachment A.

As requested by AAFC, the focus of this assessment was the select suspected LCPs and suspected asbestos-containing mortar at the Site, in order to address data gaps. Further assessment for designated substances was not part of the scope of work.

METHODOLOGY

Suspected Asbestos-Containing Materials

Sampling of suspected ACMs was conducted following the requirements of O. Reg. 278/05. The number of samples of each “homogeneous material” was collected in accordance with “Table 1: Bulk Material Samples” of O. Reg. 278/05.

Samples were submitted to an independent accredited laboratory (EMSL Canada, Inc., 22 Antares Drive in Ottawa, Ontario, NVLAP accreditation #201040-0) for asbestos content analysis. Polarized Light Microscopy (PLM) was completed in accordance with EPA methodologies and dispersion staining techniques (EPA Method 600/R-93/116) per O. Reg. 278/05.

Materials reported to contain less than 0.5% asbestos (by dry weight), including those referred to as less than the limit of detection (<LOD) or trace, are not considered to be asbestos-containing under O. Reg. 278/05. The LOD is 0.5%. The COHSR defines an ACM to be any material containing 1% or more asbestos by dry weight.

Suspected Lead-Containing Materials

Visual assessment, sampling, and analysis of suspected lead-containing materials (LCMs), specifically LCPs were completed. Samples of suspected LCPs are collected using a clean knife and scraping off a small piece of the suspected LCP. Care was taken to penetrate all paint layers at each sample location.

Paint samples for lead analysis are placed in sealed bags and labelled for submission to EMSL Canada, Inc., 2756 Slough Street, Mississauga, Ontario (American Industrial Hygiene Association (AIHA) Laboratory Accreditation Program (LAP) ID: LAP-196142). Lead analysis was completed following EPA Method SW 846 3050B/7000B.

RESULTS

Asbestos-Containing Materials

A total of three samples of suspected asbestos-containing brick wall mortar were collected from the basement wall between storage rooms B-5 and B-6 and were submitted for asbestos content analysis.

Analytical results indicated that asbestos was not detected in any of the sampled material. Therefore, the mortar material contains, if any, less than 1% and 0.5% asbestos by weight and is not considered to be an ACM in accordance with the COHSR and O. Reg. 278/05, respectively.

Please refer to Attachment B: Spreadsheet of Findings, Table 1, for further details regarding the suspected ACM samples collected for analysis. The laboratory analytical report is included within Attachment C: Laboratory Test Reports.

Lead-Containing Materials

A total of 12 suspected LCPs were within the select Project Areas were sampled for laboratory analysis. Analytical results indicated that the lead concentration in two (2) of the sampled paints to be above the classification criteria of 90 parts per million (ppm) of lead, which are therefore considered to be lead-containing:

- Green paint on the exterior front door frame, containing lead at 3,300 ppm.
- Dark green paint on the front door overhang, containing lead at 67,000 ppm.

Please refer to Attachment B: Spreadsheet of Findings, Table 2, for further details regarding the suspected LCP samples collected for analysis. The laboratory analytical report is included within Attachment C: Laboratory Test Reports.

Lead may also be present in solder on other pipe joints and emergency lighting batteries. If these materials are discovered during repair, renovation, construction, or demolition operations conducted at the Site, and whereby they may be impacted by project work, they must be treated as lead-containing until tested and proven otherwise.

CONCLUSION AND RECOMMENDATIONS

Asbestos-Containing Materials

Based on the analytical results, the mortar of the brick wall located between the basement storage rooms B-5 and B-6 is not considered to be an ACM. There is a possibility that additional ACMs may be present in concealed and inaccessible spaces that may not have been observed or assessed as part of the scope of work. If additional suspected ACMs that were not previously identified are encountered during repair, renovation, construction, or demolition operations that are not included in this report, work must be stopped, and further investigation must be conducted at that time. In the case where suspected ACMs cannot be tested, they must be treated as ACMs in accordance with the by the COHSR, O. Reg. 278/05 and the PSPC *Asbestos Management Standard* until tested and proven otherwise by laboratory analysis.

Lead-Containing Materials

Based on the findings of assessment, the following recommendations are made with respect to the LCMs (specifically LCPs) which may be disturbed during the project:

- Disturbance of LCMs during demolition operations must be conducted in accordance with the COHSR, the OHSA and the Ministry of Labour, Training and Skills Development (MLTSD) Lead Guideline¹.
- If LCMs are to be removed, they must be sent to a Ministry of the Environment Conservation and Parks (MECP) licensed recycling or disposal facility. The abatement/demolition contractor must be responsible to recover this material and prevent it from going to a landfill. If recycling of the lead is not completed, then it must be disposed of in an approved landfill.
- If additional materials not listed in this report that may contain lead are identified during abatement/demolition operations (e.g., lead sheeting, flashing, or solder), they must be treated as LCMs until tested and proven otherwise.

¹ Ontario Ministry of Labour, Training and Skills Development (Updated April 2011): Lead on Construction Projects.

STATEMENT OF LIMITATIONS

This report was prepared for the exclusive use of AAFC. This report is based on information provided AAFC, as well as samples and information collected during the Site visit conducted by Golder Associates Ltd. on 17 December and is based solely on Site conditions encountered at the time of the sampling, as described in this report.

The conclusions and recommendations contained in this report are based upon professional opinions with regard to the subject matter. These opinions are in accordance with currently accepted environmental assessment standards and practices applicable to these locations and are subject to the following inherent limitations.

The data and findings presented in this report are valid as of the date of the investigation. The passage of time, manifestation of latent conditions or occurrence of future events may warrant further exploration at the properties, analysis of the data, and re-evaluation of the findings, observations, and conclusions expressed in this report.

The findings, observations and conclusions expressed by Golder Associates Ltd. in this report are not, and should not be considered, an opinion concerning compliance of any past or present owner or operator of the building with any federal, provincial or local laws or regulations.

As such, if additional and suspected designated substances are encountered during renovation and/or demolition activities that are not included in this report, it is recommended that a further investigation be conducted at that time. As such, in the case that suspected ACMs and LCMs cannot be tested, they must be treated as such until tested and proven otherwise. Should building materials encountered during any renovation and/or demolition activities be found to contain asbestos, these materials must be managed in accordance with the COHSR and O. Reg. 278/05.

CLOSURE

If you have any questions pertaining to this project, please contact the undersigned at (613) 592-9600. Thank you for retaining the services of Golder on this project.

Sincerely,

Golder Associates Ltd.



Anne Yee, B.Sc.
EHS Consultant, Project Manager



Tim Seabert, M.Sc., CRSP
Associate, EHS Practice Leader

AY/TAS/ca

[https://golderassociates.sharepoint.com/sites/156857/project files/6 deliverables/21506570-001-aa-fc-ef bldg 26_suspect_acm_lcp.docx](https://golderassociates.sharepoint.com/sites/156857/project%20files/6%20deliverables/21506570-001-aa-fc-ef%20bldg%2026_suspect_acm_lcp.docx)

Appendices: Attachment A – Regulations and Guidelines
Attachment B – Spreadsheet of Findings
Attachment C – Laboratory Test Reports

ATTACHMENT A

Regulations and Guidelines

REGULATIONS AND GUIDELINES

Canada Occupational Health and Safety Regulations, SOR/86-304 (COHSR), Part X – Hazardous Substances

The Site is federally regulated, and therefore worker exposure to chemical agents is regulated under the *Canada Occupational Health and Safety Regulations, SOR/86-304 (COHSR)* made under the *Canada Labour Code Part II (CLC-II)*. In addition, the general duty clause of CLC-II requires employers to ensure that the health and safety of their employees is protected.

COHSR *Part X – Hazardous Substances*, lists prescribed requirements for the control of hazardous substances in federally regulated workplaces. Specifically, Section 124 of the CLC-II requires the employer to ensure that the health and safety at work of every person employed by the employer is protected. Furthermore, Section 10.19(1) of the CLC-II requires the employer to ensure that worker exposure to chemical agents do not exceed the recommended limits of the American Conference of Governmental Industrial Hygienists (ACGIH) publication entitled *Threshold Limit Values (TLVs) and Biological Exposure Indices*, dated 1994-1995, as amended from time to time.

Designated Substances

Although designated substances are not defined under federal regulations, they have been included here to meet the project requirements. The project scope of work entailed a review of designated substances.

The Ontario *Occupational Health and Safety Act*, Revised Statutes of Ontario (R.S.O.) 1990, Chapter 0.1 (OHSA) defines designated substances and outlines the basic duties of project owners regarding designated substances on project sites. According to the “Duty of project owners” requirement under Section 30 (1) of the OHSA, prior to beginning a construction project (including renovation or demolition) a document summarizing the presence of these designated substances must be available to contractors and subcontractors as part of the tendering of information. In addition, the Ontario Regulation 490/09: *Designated Substances* (O. Reg. 490/09), as amended and made under OHSA, prescribes occupational exposure limits and any required assessment and control programs for designated substances which exist within a building, project site or workplace.

Asbestos

The Canada Labour Code was amended in 2017, which resulted in occupational health and safety regulation changes regarding asbestos. The amended regulation defines an asbestos-containing material (ACM) to be any material containing 1% or more asbestos by weight.

Under Section 10.26.1 of the COHSR, if ACM is present in a workplace and there is the potential for a release of asbestos fibres or employee exposure to asbestos fibres, the employer shall ensure that a qualified person carry out a hazard investigation, including identifying and documentation of the type, condition, friability, accessibility, likelihood of damage and potential release of fibres. Golder’s assessment was performed to serve this purpose.

Furthermore, if asbestos is identified during the hazard investigation, an Asbestos Control Plan must be in place prior to undertaking work involving ACM to ensure ACM is classified (as high-, moderate- or low-risk activity), ACM has been identified, and that procedures and controls are in place to prevent exposure; including asbestos dust, waste, and debris removal, decontamination, and air sampling requirements.

The Public Services and Procurement Canada (PSPC) *Asbestos Management Standard* prescribes the operational and technical requirements for the management, maintenance, and repair work processes of ACM and the COHSR.

In addition, Section 10 of Ontario Regulation 278/05: *Designated Substance – Asbestos on Construction Projects and in Buildings and Repair Operations* (O. Reg. 278/05), as amended and made under the OHS, outlines specific procedures for the identification of ACMs in buildings and on construction sites and protocols for their removal or disturbance during renovation. O. Reg. 278/05 defines as an ACM as a material that contains 0.5 per cent or more asbestos by dry weight. For the purposes of Golder's assessment, the O. Reg. 278/05 definition of asbestos was applied as Golder's mandate was to review Designated Substances at the Site which are relevant to Ontario.

Under Section 30 of the OHS, before beginning a project, the owner shall determine whether any designated substances are present at each project site and shall prepare a list of all designated substances that are present at each site.

Ontario Regulation 347 entitled *General – Waste Management* as amended (O. Reg. 347/90), made under the Ontario *Environmental Protection Act*, R.S.O. 1990, Chapter E.19, as amended, sets out requirements for general waste management including ACM. The regulation defines "asbestos waste" as "solid or liquid waste that results from the removal of asbestos-containing construction or insulation materials or from the manufacture of asbestos-containing products and contains asbestos in more than a trivial amount or proportion". This regulation requires the disposal of asbestos waste in a double sealed container, properly labelled and free of cuts, tears or punctures. The waste must be disposed of in a licensed waste facility which has been properly notified of the presence of asbestos waste.

Lead

Under the COHSR (SOR/86-304), the employee shall be kept free from exposure to a concentration of an airborne lead in excess of the ACGIH Threshold Limit Value – Time-Weighted Average (TLV-TWA) of 0.05 mg/m³ for lead. Although there is no federal regulation concerning lead in paint at the workplace, section 126(1) of the CLC-II states that every employee shall, take all reasonable and necessary precautions to ensure the health and safety of the employee, the other employees and any person likely to be affected by the employee's acts or omissions. Therefore, Golder has consulted various other guidance for interpretation of lead in paint or other materials.

In 2005, the Government of Canada passed the *Surface Coating Materials Regulations*, under the *Hazardous Products Act*. The regulations were amended in 2010 setting the limit for lead content of surface coating materials at 90 mg/kg (equivalent to 90 µg/g or 90 ppm). The limit of 90 mg/kg is specifically for consumer products; however, it is a widely accepted limit for lead content in paint in federally regulated workplaces.

The Occupational Health and Safety Branch of the Ontario Ministry of Labour, Training and Skills Development (MLTSD) published their Guideline entitled *Lead on Construction Projects*, revised in April 2011 (MLTSD Lead Guideline), to raise the awareness of employers and workers in the construction industry of the hazards posed by lead in construction and the measures and procedures that should be taken to control those hazards. Currently, this document represents due diligence practice for lead exposure control on construction projects, as enforced by the MLTSD under the General Duty clause 25(2)(h) of the OHS. As such, it is referenced within the report, where appropriate, to provide guidance on appropriate handling and exposure control procedures when dealing with lead.


Golder understands the MLTSD currently does not include criteria for classification of LCP, and as such, Golder has applied the Government of Canada's *Surface Coating Materials Regulations* (SOR/2016-193), made under the *Canada Consumer Product Safety Act*, of 90 ppm. This limit is specifically for consumer products; however, it has been historically used as an industry accepted limit for lead content in materials such as paints, therefore it has been applied herein to define the LCP threshold.

Disposal of lead must be done in accordance with applicable local regulations, if any. In the absence of applicable local regulations, disposal of lead should be in accordance with the requirements of O. Reg. 347/90.

ATTACHMENT B

Spreadsheet of Findings

Table 1: Summary of Materials Visually Assessed and Sampled for Asbestos Analysis

Material Description	Material Location	Observed Estimated Quantity	Condition	Friable (Yes / No)	Accessibility	Sample Number	Asbestos Concentration (%) and Type	Photograph
Mortar	Basement wall between storage rooms B-5 and B-6	N/A ⁽¹⁾	N/A	N/A	N/A	A-001A to A-001C	None Detected	

Notes




(1) "N/A" indicates not applicable. Sampled material contains less than 1% and less than 0.5% of asbestos by weight and is not considered to be an ACM in accordance with the COHSR and O. Reg. 278/05, respectively.

Table 2: Summary of Materials Visually Assessed and Sampled for Lead Analysis

Description ⁽¹⁾ / Location of Material	Condition	Concentration		Sample Number	Lead-Containing Material (Yes/No) ⁽³⁾	Photograph
		Pb (ppm)				
Blue-grey paint / Interior front door frame	N/A	<81 ⁽¹⁾		L-001	No	
Dark blue-grey paint / Ground floor reception/foyer (wall)	N/A	<82		L-002	No	
White paint / Ground floor room off reception/foyer (wall)	N/A	<81		L-003	No	

Description ⁽¹⁾ / Location of Material	Condition	Concentration		Sample Number	Lead-Containing Material (Yes/No) ⁽³⁾	Photograph
		Pb (ppm)				
White paint / Ground floor room off kitchen (wall)	N/A	<82		L-004	No	
White paint / Ground floor washroom (wall)	N/A	<80		L-005	No	
White paint / Second floor office 1 - room 200 (wall)	N/A	<82		L-006	No	

Description ⁽¹⁾ / Location of Material	Condition	Concentration		Sample Number	Lead-Containing Material (Yes/No) ⁽³⁾	Photograph
		Pb (ppm)				
White paint / Second floor office 2 - room 204 (wall)	N/A	<81		L-007	No	
White paint / Second floor office 3 – room 201 (wall)	N/A	<82		L-008	No	
White paint / Second floor conference room – room 203 (wall)	N/A	<81		L-009	No	

Description ⁽¹⁾ / Location of Material	Condition	Concentration		Sample Number	Lead-Containing Material (Yes/No) ⁽³⁾	Photograph
		Pb (ppm)				
Off-white paint / Second floor kitchenette – room 202 (wall)	N/A	<82		L-010	No	
Green paint / Exterior front door frame	Good to poor	3,300		L-011	Yes	
Dark green paint / Front door overhang	Good	67,000		L-012	Yes	

Notes:

- (1) All paints/materials found to be in likeness to confirmed or presumed lead-containing paints/materials, must be handled as lead-containing unless otherwise confirmed by laboratory analysis.
- (2) Less than "<" indicates the concentration of lead within the sampled material is less than Method Detection Limit (MDL) and is not considered to be lead-containing.

ATTACHMENT C

Laboratory Test Reports



EMSL Canada Inc.

22 Antares Drive Suite 102 Ottawa, ON K2E 7Z6
Phone/Fax: (343) 882-6076 / (343) 882-6077
<http://www.EMSL.com> / ottawalab@EMSL.com

EMSL Canada Order 672102200
Customer ID: 55GOLA78
Customer PO:
Project ID:

Attn: Anne Yee
Golder Associates, Ltd.
1931 Robertson Road
Ottawa, ON K2H 5B7

Phone: (613) 592-9600
Fax: (613) 592-9601
Collected: 12/17/2021
Received: 12/17/2021
Analyzed: 12/21/2021

Proj: 21506570

Test Report: Asbestos Analysis of Bulk Materials for Ontario Regulation 278/05 via EPA600/R-93/116 Method

Client Sample ID: A-001A

Lab Sample ID: 672102200-0001

Sample Description: MORTAR - brick

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	12/17/2021	Gray/White	0.0%	100.0%	None Detected	Inseparable layers

Client Sample ID: A-001B

Lab Sample ID: 672102200-0002

Sample Description: MORTAR - brick

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	12/17/2021	Gray/White	0.0%	100.0%	None Detected	Inseparable layers

Client Sample ID: A-001C

Lab Sample ID: 672102200-0003

Sample Description: MORTAR - brick

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	12/21/2021	Gray	0.0%	100.0%	None Detected	

Analyst(s):

Brianne Bedard PLM (1)
Simon Parent PLM (2)

Reviewed and approved by:

Ewa Krupinska, Laboratory Manager
or Other Approved Signatory

None Detected = <0.1%. EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Estimation of uncertainty available upon request. This report is a summary of multiple methods of analysis, fully compliant reports are available upon request. A combination of PLM and TEM analysis may be necessary to ensure consistently reliable detection of asbestos. This report must not be used to claim product endorsement by NVLAP of any agency or the U.S. Government.

Samples analyzed by EMSL Canada Inc. Ottawa, ON NVLAP Lab Code 201040-0

Initial report from: 12/21/2021 11:55:43



Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

672102200

EMSL CANADA, INC.
 102, 22 ANTARES DRIVE
 OTTAWA, ON K2E 7Z6
 PHONE: (343)-882-6076
 FAX: (343)-882-7077

Company : Golder Associates Ltd		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: 1931 Robertson Road		Third Party Billing requires written authorization from third party	
City: Ottawa	State/Province: ON	Zip/Postal Code: K2H 5B7	Country: Canada
Report To (Name): ANNE YEE / Tim Seibert		Fax #: 613-592-9601	
Telephone #: 613-592-9600		Email Address: Anne_yee@Golder.com / Tim_Seibert@Golder.com	
Project Name/Number: 21506570			
Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		Purchase Order: _____ U.S. State Samples Taken: _____	
Turnaround Time (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hour <input type="checkbox"/> 6 Hour <input checked="" type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week			
<small>*For TEM Air 3 hours through 6 hours, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.</small>			
PCM - Air <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA		TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312	
PLM - Bulk (reporting limit) <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%)		TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 TEM - Water: EPA 100.2 Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	
		TEM- Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167)	
		Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> EPA Protocol (Semi-Quantitative) <input type="checkbox"/> EPA Protocol (Quantitative)	
		Other: _____	
<input type="checkbox"/> Check For Positive Stop - Clearly Identify Homogenous Group			
Samplers Name:		Samplers Signature:	
Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
A-001A	MORTAR - brick		Dec 17 '21
A-001B	MORTAR - brick		↓
A-001C	MORTAR - brick		↓
Client Sample # (s): 3		Total # of Samples: 3	
Relinquished (Client): ANNE YEE		Date: Dec 17 '21	Time: 10:AM
Received (Lab): Ottawa Walk-in MD		Date: 12/17/21	Time: 12:04pm
Comments/Special Instructions: PLM EPA 600/R-93/116 (<0.5%) Please analyze all samples			

**EMSL Canada Inc.**

2756 Slough Street, Mississauga, ON L4T 1G3

Phone/Fax: (289) 997-4602 / (289) 997-4607

<http://www.EMSL.com>torontolab@emsl.com

EMSL Canada Or	552120810
CustomerID:	55GOLA78
CustomerPO:	21506570
ProjectID:	

Attn: **Anne Yee**
Golder Associates, Ltd.
1931 Robertson Road
Ottawa, ON K2H 5B7

Phone: (613) 592-9600
 Fax: (613) 592-9601
 Received: 12/20/2021 12:37 PM
 Collected: 12/17/2021

Project: **21506570****Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)***

<i>Client Sample</i>	<i>Description</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Weight</i>	<i>RDL</i>	<i>Lead Concentration</i>
L-001 552120810-0001		12/17/2021	12/21/2021	0.2470 g	81 ppm	<81 ppm
	Site: Blue/Grey - Front Door Frame Int.					
L-002 552120810-0002		12/17/2021	12/21/2021	0.2450 g	82 ppm	<82 ppm
	Site: Dark Blue/Grey - Reception Wall					
L-003 552120810-0003		12/17/2021	12/21/2021	0.2475 g	81 ppm	<81 ppm
	Site: White - Wall - Room Off Reception					
L-004 552120810-0004		12/17/2021	12/21/2021	0.2445 g	82 ppm	<82 ppm
	Site: White - Wall - Room Off Kitchen					
L-005 552120810-0005		12/17/2021	12/21/2021	0.2520 g	80 ppm	<80 ppm
	Site: White - Wall - Washroom					
L-006 552120810-0006		12/17/2021	12/21/2021	0.2435 g	82 ppm	<82 ppm
	Site: White - Wall - Office 200					
L-007 552120810-0007		12/17/2021	12/21/2021	0.2475 g	81 ppm	<81 ppm
	Site: White - Wall - Office 204					
L-008 552120810-0008		12/17/2021	12/21/2021	0.2445 g	82 ppm	<82 ppm
	Site: White - Wall - Office 201					
L-009 552120810-0009		12/17/2021	12/21/2021	0.2475 g	81 ppm	<81 ppm
	Site: White - Wall - Office 203					
L-010 552120810-0010		12/17/2021	12/21/2021	0.2440 g	82 ppm	<82 ppm
	Site: Off White - Wall - 2nd Floor Kitchenette					
L-011 552120810-0011		12/17/2021	12/21/2021	0.2465 g	81 ppm	3300 ppm
	Site: Green - Front Door Frame Ext.					

Rowena Fanto, Lead Supervisor
 or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted.
 Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008% wt based on the minimum sample weight per our SOP. "<" (less than) result signifies the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. Definitions of modifications are available upon request.
 Samples analyzed by EMSL Canada Inc. Mississauga, ON AIHA-LAP, LLC - ELLAP #196142

Initial report from 12/21/2021 10:08:13

**EMSL Canada Inc.**

2756 Slough Street, Mississauga, ON L4T 1G3

Phone/Fax: (289) 997-4602 / (289) 997-4607

<http://www.EMSL.com>torontolab@emsl.com

EMSL Canada Or	552120810
CustomerID:	55GOLA78
CustomerPO:	21506570
ProjectID:	

Attn: Anne Yee Golder Associates, Ltd. 1931 Robertson Road Ottawa, ON K2H 5B7	Phone: (613) 592-9600 Fax: (613) 592-9601 Received: 12/20/2021 12:37 PM Collected: 12/17/2021
Project: 21506570	

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

<i>Client SampleDescription</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Weight</i>	<i>RDL</i>	<i>Lead Concentration</i>
L-012 552120810-0012	12/17/2021	12/21/2021	0.2510 g	4000 ppm	67000 ppm
Site: Dark Green - Front Door Overhang					

 Rowena Fanto, Lead Supervisor
or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted.

Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008% wt based on the minimum sample weight per our SOP. "<" (less than) result signifies the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. Definitions of modifications are available upon request.

Samples analyzed by EMSL Canada Inc. Mississauga, ON AIHA-LAP, LLC - ELLAP #196142

Initial report from 12/21/2021 10:08:13

Lead Chain of Custody

EMSL Order Number / Lab Use Only

EMSL Canada, Inc.
22 Antares Drive Ste 102
Ottawa, ON K2E 7Z6



EMSL CANADA, INC.
LABORATORY PRODUCTS TRAINING

55 2120810

PHONE: (343) 882-6076

EMAIL: OttawaLab@EMSL.com

If Bill-To is the same as Report-To leave this section blank. Third-party billing requires written authorization.

Customer Information	Customer ID:	Billing ID:
	Company Name: GOLDER ASSOCIATES	Company Name:
	Contact Name: ANNE YEE / Tim Sedbeck	Billing Contact:
	Street Address:	Street Address:
	City, Province, Postal Code: OTTAWA Country: CA	City, Province, Postal Code: Country:
Phone:	Phone:	
Email(s) for Report: Anne.yee@golder.com / Tim.Sedbeck@golder.com	Email(s) for Invoice:	

Project Name/No. 21506570		Purchase Order:
EMSL (IMS Project ID. (if applicable, EMSL will provide))	US State where samples collected:	State of Connecticut (CT) must select project location. <input type="checkbox"/> Commercial (Taxable) <input type="checkbox"/> Residential (Non-Taxable)
Sampled By Name: ANNE YEE	Sampled By Signature: <i>[Signature]</i>	No. of Samples in Shipment

Turn-Around-Time (TAT)

3 Hour 6 Hour 24 Hour 32 Hour 48 Hour 72 Hour 96 Hour 1 Week 2 Week

Please call ahead for large projects and/or turnaround times 6 hours or less. *32 hour TAT available for select tests only; samples must be submitted by 11:30am.

MATRIX	METHOD	INSTRUMENT	REPORTING LIMIT	SELECTION
CHIPS <input type="checkbox"/> % by wt. <input checked="" type="checkbox"/> ppm (mg/kg) <input type="checkbox"/> mg/cm ²	SW 846-7000B	Flame Atomic Absorption	0.008% (80ppm)	<input checked="" type="checkbox"/>
Reporting Limit based on a minimum 0.25g sample weight	SW 846-6010D	ICP-OES	0.0004% (4ppm)	<input type="checkbox"/>
AIR	NIOSH 7082	Flame Atomic Absorption	4µg/filter	<input type="checkbox"/>
	NIOSH 7300M / NIOSH 7303M	ICP-OES	0.5µg/filter	<input type="checkbox"/>
	NIOSH 7300M / NIOSH 7303M	ICP-MS	0.05µg/filter	<input type="checkbox"/>
WIPE <input type="checkbox"/> ASTM <input type="checkbox"/> NON-ASTM	SW 846-7000B	Flame Atomic Absorption	10µg/wipe	<input type="checkbox"/>
If no box is checked, non-ASTM Wipe is assumed	SW 846-6010D	ICP-OES	1.0µg/wipe	<input type="checkbox"/>
TCLP	SW 846-1311 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW 846-1311 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	<input type="checkbox"/>
SPLP	SW 846-1312 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW 846-1312 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	<input type="checkbox"/>
TTLC	22 CCR App. II, 7000B	Flame Atomic Absorption	40mg/kg (ppm)	<input type="checkbox"/>
	22 CCR App. II, SW 846-6010D*	ICP-OES	2mg/kg (ppm)	<input type="checkbox"/>
STLC	22 CCR App. II, 7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	22 CCR App. II, SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW 846-7000B	Flame Atomic Absorption	40mg/kg (ppm)	<input type="checkbox"/>
	SW 846-6010D*	ICP-OES	2mg/kg (ppm)	<input type="checkbox"/>
Wastewater	SM 3111B / SW 846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
Unpreserved	EPA 200.7	ICP-OES	0.020 mg/L (ppm)	<input type="checkbox"/>
Preserved with HNO3 <input type="checkbox"/> PH<2 <input type="checkbox"/>	EPA 200.5	ICP-OES	0.003 mg/L (ppm)	<input type="checkbox"/>
Drinking Water	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
Unpreserved	40 CFR Part 50	ICP-OES	12 µg/filter	<input type="checkbox"/>
Preserved with HNO3 <input type="checkbox"/> PH<2 <input type="checkbox"/>	Other:			<input type="checkbox"/>

Sample Number	Sample Location	Volume / Area	Date / Time Submitted
L-001	Blue/Grey-Front Door Frame Int.		Dec 17 '21
L-002	Dark Blue/Grey- Reception Wall		
L-003	White-Wall-Rm off Reception		
L-004	White-Wall-Rm off Kitchen		
L-005	White-Wall-Washroom		

Method of Shipment:	Sample Condition Upon Receipt:
Relinquished by: Anne Yee	Date/Time: Dec 17 '21
Received by: LAB 55	Date/Time: 12:37 PM
Relinquished by:	Date/Time:
Received by:	Date/Time: Dec. 20/2021



Lead Chain of Custody

EMSL Order Number / Lab Use Only

EMSL Canada, Inc.
22 Antares Drive Ste 102
Ottawa, ON K2E 7Z6

EMSL CANADA, INC.
LABORATORY • PRODUCTS • TRAINING

052120810

PHONE: (343) 882-6076
EMAIL: OttawaLab@EMSL.com

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Sample Number	Sample Location	Volume / Area	Date / Time Submitted
L-006	White - Wall - Office 200		Dec 17 '21
L-007	White - Wall - Office 204		
L-008	White - Wall - Office 201		
L-009	White - Wall - Office 203		
L-010	Off White - Wall - Kitchen ^{2nd Floor}		
L-011	Green - Door Frame Ext. ^{Front}		
L-012	Dark Green - Door Overhang ^{Front}		

Method of Shipment:		Sample Condition Upon Receipt:	
Relinquished by: <i>Anne Yea</i>	Date/Time: <i>10:00 am</i>	Received by:	Date/Time
Relinquished by:	Date/Time:	Received by:	Date/Time