

**TENDER ADDENDUM****NCC - Summer 2015 Rehabilitation Project****NCC tender file # AL1558****January 29, 2015****ADDENDUM NO: 7****ADDENDA À LA SOUMISSION****CCN - Travaux de Rénovation Été 2015****Dossier de soumission de la CCN no. AL1558****Le 29 janvier 2015****ADDENDA NO: 7**

The following shall be read in conjunction with and shall form an integral part of the Tender/Proposal and Contract Documents:

1. The Invitation to Tender and Acceptance Form is revised as per attached rev1 version – 4 pages. Please disregard the previous version.
2. Asbestos Sampling Report (in English only) – 20 pages.

Ce qui suit doit être interprété comme faisant partie intégrante de la proposition/appeal d'offres et des documents relatifs au contrat :

1. Le formulaire de soumission et acceptation est révisé selon la version rév1 en annexe – 4 pages. Svp ignorez la version précédente.
2. Rapport d'échantillon d'amiante (en anglais seulement) – 20 pages.

Allan Lapensée  
Senior Contract Officer / Agent principal des contrats  
Procurement Services / Services d'approvisionnement  
[allan.lapensee@ncc-ccn.ca](mailto:allan.lapensee@ncc-ccn.ca)

<b>RETURN TENDERS TO:</b> National Capital Commission 40 Elgin Street, 3rd Floor, Service Centre Ottawa, ON K1P 1C7	<b>NCC Tender Number</b>  <b>AL1558</b>
	<b>NCC Contract Number</b>
<b>TENDER CLOSING DATE AND TIME:</b>	Tuesday, February 10, 2015 at 3:00 p.m., Ottawa time

<b>DESCRIPTION OF WORK:</b> NCC - Summer 2015 Rehabilitation Project
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**1. BUSINESS NAME AND ADDRESS OF BIDDER**

**Name:** \_\_\_\_\_

**Address:** \_\_\_\_\_

\_\_\_\_\_

**Telephone number:** \_\_\_\_\_ **Fax number:** \_\_\_\_\_

**E-mail address:** \_\_\_\_\_

**2. THE OFFER**

The Bidder offers to the National Capital Commission (NCC) to perform and complete the work for the above mentioned project in accordance with the tender documents for the total tender amount (to be expressed in numbers only) of:

Base Price	\$	
Cash Allowances	\$	85,000.00
Sub total	\$	
OHST – 13%	\$	
<b>TOTAL</b>	<b>\$</b>	

Cash allowance total of \$75,000 to construct new stair in package 7 and cash allowance total of \$10,000 to modify sprinkler system heads in package 9

**3. TENDER VALIDITY PERIOD**

The tender shall not be withdrawn for a period of 60 days following the date and time of tender closing.

**4. CONTRACT DOCUMENTS**

1. The following are the contract documents:

- (a) Invitation to Tender & Acceptance Form when signed by the NCC;
- (b) Duly completed Invitation to Tender & Acceptance Form and any Appendices attached thereto;
- (c) Drawings and Specifications;
- (d) General Conditions (GC1 to GC10);
- (e) Supplementary Conditions, if any;
- (f) Insurance Terms;
- (g) Occupational Health and Safety Requirements;
- (h) Addenda
- (i) Any amendments issued or any allowable tender revision received before the date and time set for tender closing;
- (j) Any amendment incorporated by mutual agreement between the NCC and the Contractor before acceptance of the tender; and
- (k) Any amendment or variation of the contract documents that is made in accordance with the General Conditions;
- (l) Security Requirements.

2. The language of the contract documents shall be the language of the Invitation to Tender & Acceptance Form submitted.

NCC Tender Number AL1558

NCC Contract Number

**5. APPENDICES**

The tender includes Appendix(ces) Nos I, II and III to the Invitation to Tender & Acceptance Form.

**6. ACCEPTANCE AND CONTRACT**

Upon acceptance of the Contractor’s offer by the NCC, a binding Contract shall be formed between the NCC and the Contractor. The documents forming the Contract shall be the contract documents referred to in 4 – CONTRACT DOCUMENTS.

**7. CONSTRUCTION TIME**

The Contractor shall perform and complete the Work as per schedule stated below:

- .1 It is anticipated that preliminary site investigation, approval of shop drawing and ordering of long lead items, e.g. elevator, will begin early March 2015.
- .2 Construction for all nine packages shall begin on June 1st 2015.
- .3 Substantial Completion for all packages, except the Cafeteria Rehabilitation package and the Basement Abatement package, shall be September 4, 2015.
- .4 Final Completion for all packages, except the Cafeteria Rehabilitation package and the Basement Abatement package, shall be September 18, 2015.
- .5 Substantial Completion for the Cafeteria Rehabilitation package shall be November 4, 2015.
- .6 Final Completion for the Cafeteria Rehabilitation package shall be November 18, 2015.
- .7 Final Completion for the Basement Abatement package shall be August 26, 2015.

**8. UNIT PRICE TABLE**

The Bidder agrees that

- (a) the Unit Price Table designates that part of the Work to which a Unit Price Arrangement applies.
- (b) the Price per Unit and the Estimated Total Price must be entered for each item listed;
- (c) the Price per Unit as tender governs in calculating the Total Estimated Amount, and any errors in the extension of the Price per Unit and in the addition of the Estimated Total Prices shall be corrected by the NCC in order to obtain the Total Estimated Amount; and
- (d) the following table is the Unit Price Table for the purposes of the tender and the Contract:

**UNIT PRICE TABLE**

**Note:** Transfer the Total Estimated Amount from the Unit Price Table to item 2 – THE OFFER of this Invitation to Tender & Acceptance Form

	NCC project no.	Package description	UOM	Est. QTY	Unit cost	Extended total or lump sum price
Package 1	DC1110-21-10	Elevator Replacement	L.S.	n/a	n/a	
Package 2	DC1110-18	Glycol Line Extension	L.S.	n/a	n/a	

Package 3	DC1110-19	Kitchen HVAC Upgrade	L.S.	n/a	n/a	
Package 4	DC1110-24	Pantry Cooling System Upgrade	L.S.	n/a	n/a	
Package 5	DC1110-25	Domestic Hot Water System	L.S.	n/a	n/a	
Package 6	DC1110-26	Roof Replacement	L.S.	n/a	n/a	
Package 7	DC1110-22	Foundation Rehabilitation – All items on drawings and specification excluding Rock removal unit price item below	L.S.	n/a	n/a	
Package 7	DC1110-22	Foundation Rehabilitation - Rock removal	CU.M.	15		
Package 8	DC1110-23	Cafeteria Rehabilitation	L.S.	n/a	n/a	
Package 9	DC1110-20	Basement Abatement	L.S.	n/a	n/a	
					Base price	

9. The basis of award is low total cost to the NCC including all taxes if the Bidder passes the Request for Qualification (appendix III).
10. I/We acknowledge receipt of the following addenda: \_\_\_\_\_  
(Bidder to enter number of addenda issued, if any) and have included for the requirement of it/them in my/our tendered price.
11. **TENDER SECURITY**
1. The Bidders shall enclose tender security with its tender in accordance with GI08 TENDER SECURITY REQUIREMENTS.
  2. If the security furnished does not comply fully with the requirements referred to in paragraph 1) herein, the tender shall be disqualified.
  3. If a security deposit is furnished as tender security, it shall be forfeited in the event that the tender is accepted by the NCC and the Contractor fails to provide Contract Security in accordance with GC9 CONTRACT SECURITY, provided that the NCC may, if it is in the public interest, waive the forfeiture of the security deposit.

**12. INVOICING**

Send the original invoice and 1 copy to:

**Accounts Payable  
National Capital Commission  
202-40 Elgin Street  
Ottawa, ON K1P 1C7**

Or by email at the following address: [payables@ncc-ccn.ca](mailto:payables@ncc-ccn.ca)

To ensure prompt payment, please prepare your invoice in accordance with the prices quoted. Errors in invoicing can cause delay of payment. Submit your invoice to the address shown above and clearly indicate the Purchase Order number.

**13. REQUEST FOR QUALIFICATION**

Bidders (General Contractors intending on bidding to the NCC) must complete the request for qualification document (see appendix III) and submit with this Invitation to Tender & Acceptance Form.

We hereby offer to supply to the NCC in accordance with the terms and conditions set out herein, the construction work listed above and on any attached sheets at the submitted price(s).

Name and title of person authorized to sign on behalf of Bidder (please print or type)	Signature	Date

Your tender is accepted to supply to the NCC, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the construction services listed herein and on any attached sheets at the price(s) set out therefore.

Name and title of the person authorized to sign on behalf of the NCC (please print or type)	Signature	Date

<b>RETOURNER LES SOUMISSIONS À :</b>	Commission de la capitale nationale 40, rue Elgin, 3 <sup>e</sup> étage, Centre de service Ottawa, ON K1P 1C7	<b>Numéro de soumission de la CCN</b>
		<b>AL1558</b>
<b>DATE ET L'HEURE DE FERMETURE :</b>	Mardi, le 10 février 2015 à 15 h, heure d'Ottawa	<b>Numéro du contrat de la CCN</b>

**DESCRIPTION DES TRAVAUX :** CCN - Travaux de Rénovation Été 2015

### 1. NOM COMMERCIAL ET ADRESSE DU SOUMISSIONNAIRE

**Nom :** \_\_\_\_\_

**Adresse :** \_\_\_\_\_

**N<sup>o</sup> de téléphone :** \_\_\_\_\_ **N<sup>o</sup> de télécopieur :** \_\_\_\_\_

**Adresse courriel:** \_\_\_\_\_

### 2. OFFRE

Le soumissionnaire offre à la Commission de la capitale nationale (CCN), d'exécuter les travaux du projet mentionné ci-dessus, conformément aux documents de soumission pour le montant de soumission total de (exprimée en chiffres seulement).

Prix de base	\$	
Allocations monétaire	\$	85 000,00
Total partiel	\$	
TVHO – 13%	\$	
<b>TOTAL</b>	<b>\$</b>	

Allocation monétaire de 75 000 \$ pour construire un nouveau escalier dans le sous projet 7, et, une allocation monétaire de 10 000 \$ pour modifier les têtes de gicleurs dans le sous projet 9

### 3. PÉRIODE DE VALIDITÉ DE SOUMISSION

La soumission ne peut être retirée pour une période de 60 jours suivant la date de clôture de l'invitation.

### 4. DOCUMENTS DU CONTRAT

1. Les documents suivants constituent le contrat:

- (a) Formulaire de soumission et d'acceptation une fois signée par la CCN;
- (b) Formulaire de soumission et d'acceptation et tout Appendice s'y rattachant rempli en bonne et due forme;
- (c) Plans et devis;
- (d) Conditions générales (CG1 à CG10);
- (e) Conditions supplémentaires, le cas échéant;
- (f) Conditions d'assurance;
- (g) Exigences en matière de santé et de sécurité du travail;
- (h) Addenda;
- (i) Toute modification émise ou toute révision de soumission recevable, reçue avant l'heure et la date déterminée pour la clôture de l'invitation;
- (j) Toute modification incorporée d'un commun accord entre la CCN et l'entrepreneur avant l'acceptation de la

Soumission de la CCN AL1558

Numéro de contrat de  
la CCN

- soumission;
- (k) Toute modification aux documents du contrat qui est apportée conformément aux Conditions générales; et
  - (l) Exigences de Sécurité.

2. La langue des documents du contrat sera celle du Formulaire de soumission et d'acceptation présenté.

## 5. APPENDICES

La soumission comprend l'appendice/les appendices n<sup>o</sup>(s) I, II et III au Formulaire de soumission et d'acceptation

## 6. ACCEPTATION ET CONTRAT

À l'acceptation de l'offre de l'entrepreneur par la CCN, un contrat exécutoire est formé entre la CCN et l'entrepreneur. Les documents constituant le contrat sont ceux mentionnés à : 4 – *Documents du contrat*.

## 7. DURÉE DES TRAVAUX

L'entrepreneur doit exécuter et compléter les travaux selon l'échéancier ci-dessous :

- .1 Il est prévu que les travaux d'investigation au chantier, l'approbation des dessins d'atelier et l'achat des équipements ayant de long délai de livraison, tel que l'ascenseur, commencera début mars 2015.
- .2 Les travaux de construction pour les neuf sous-projets devront débuter le 1er juin 2015.
- .3 La date d'achèvement substantiel des travaux pour tous les sous-projets, sauf celui de la Réhabilitation de la Cafétéria et de la Suppression de Matériaux au Sous-sol sera le 4 septembre 2015.
- .4 La date d'achèvement final des travaux pour tous les sous-projets, sauf celui de la Réhabilitation de la Cafétéria et de la Suppression de Matériaux au Sous-sol, sera le 18 septembre 2015.
- .5 La date d'achèvement substantiel des travaux pour le sous-projet de la Réhabilitation de la Cafétéria sera le 4 novembre 2015.
- .6 La date d'achèvement final des travaux pour le sous-projet de la Réhabilitation de la Cafétéria sera le 18 novembre 2015.
- .7 La date d'achèvement final des travaux pour le sous-projet de la Suppression de Matériaux au Sous-sol sera le 26 aout 2015.

## 8. TABLEAU DES PRIX UNITAIRES

Le soumissionnaire convient que

- (a) le tableau des prix unitaires désigne la partie des travaux qui est assujettie à un arrangement à prix unitaires. Les travaux qui ne sont pas désignés au tableau des prix unitaires constituent la partie des travaux qui est assujettie à un arrangement à prix forfaitaire.
- (b) le prix unitaire ainsi que le prix estimatif total doivent être inscrits pour chaque article énuméré;
- (c) le prix unitaire tel que soumissionné sera déterminant dans le calcul du montant estimatif total, et toute erreur dans le calcul du prix estimatif total ou du montant estimatif total sera corrigé par la CCN en vue d'obtenir le montant estimatif total; et
- (d) le tableau suivant est le tableau des prix unitaires qui s'applique à la soumission et au contrat:

### TABLEAU DES PRIX UNITAIRES

**Note :** Reportez le montant estimatif total du tableau des prix unitaires, au sous-alinéa 2. *Offre* de ce Formulaire de soumission et d'acceptation.

Soumission de la CCN AL1558

Numéro de contrat de la CCN

	No. de projet de la CCN.	Description du sous projet	Unité de mesure	Qté estimé	Prix unitaire	Total calculé ou prix forfaitaire
Sous projet 1	DC1110-21-10	Remplacement de l'Ascenseur	prix forfaitaire	s/o	s/o	
Sous projet 2	DC1110-18	Allongement de la Boucle d'Eau Réfrigérée	prix forfaitaire	s/o	s/o	
Sous projet 3	DC1110-19	Amélioration CVCA de la Cuisine	prix forfaitaire	s/o	s/o	
Sous projet 4	DC1110-24	Remplacement du Système de Climatisation de la Pantry	prix forfaitaire	s/o	s/o	
Sous projet 5	DC1110-25	Modifications du Système d'Eau Chaude Domestique	prix forfaitaire	s/o	s/o	
Sous projet 6	DC1110-26	Travaux de Remplacement de la Toiture	prix forfaitaire	s/o	s/o	
Sous projet 7	DC1110-22	Réhabilitation de la Fondation – Tous items sur les dessins et devis excluant le taux unitaire pour l'enlèvement de la roche ci-dessous	prix forfaitaire	s/o	s/o	
Sous projet 7	DC1110-22	Réhabilitation de la Fondation - l'enlèvement de la roche	M. CU.	15		
Sous projet 8	DC1110-23	Réhabilitation de la Cafétéria	prix forfaitaire.	s/o	s/o	
Sous projet 9	DC1110-20	Programme d'Élimination au Sous-Sol	prix forfaitaire	s/o	s/o	
					Prix de base	

9. L'octroi de cette soumission sera basé sur le prix le plus bas pour la CCN incluant les taxes pour le soumissionnaire qui passe la demande de qualification (appendice III).
10. Nous accusons réception des addendas suivants : \_\_\_\_\_ (le soumissionnaire est tenu d'insérer de numéro de l'addenda ainsi que la date d'émission, s'il y a lieu).et en avons tenu compte dans le calcul de notre prix du contrat.
11. **GARANTIE DE SOUMISSION**



Soumission de la CCN AL1558

Numéro de contrat de  
la CCN

1. Le soumissionnaire joint à sa soumission une garantie de soumission conformément à l'IG08 *Exigences relatives à la garantie de soumission*.
2. Si la garantie donnée ne satisfait pas pleinement aux exigences mentionnées à l'article 1) aux présentes, la soumission sera rejetée.
3. Si un dépôt de garantie est donné comme garantie de soumission et que l'entrepreneur, suite à l'acceptation de sa soumission par la CCN, refuse de fournir la garantie contractuelle exigée à la CG9 *Garantie contractuelle*, le dépôt de garantie sera confisqué; toutefois, la CCN peut renoncer à ses droits de confisquer le dépôt de garantie, si cela est dans l'intérêt public.

**12. FACTURATION**

Envoyer la facture originale et 1 copie par la poste à :

**Comptes Payables**  
**Commission de la capitale nationale**  
**40 rue Elgin, pièce 202**  
**Ottawa, ON K1P 1C7**

Ou par courriel à l'adresse suivante: [payables@ncc-ccn.ca](mailto:payables@ncc-ccn.ca)

Afin de vous assurer d'un règlement rapide, veuillez préparer votre facture selon les prix cotés. Des erreurs dans la facturation peuvent causer des retards de paiement. Nous vous prions de soumettre votre facture à l'adresse mentionnée ci-dessus et indiquer clairement le numéro de bon de commande.

**13. DEMANDE DE QUALIFICATION**

Le soumissionnaire (entrepreneur générale qui a l'intention de déposer une soumission à la CCN) doit compléter le formulaire de la demande de qualification (appendice III) et l'annexé à ce formulaire de soumission et d'acceptation.

Nous offrons par la présente de fournir à la CCN, aux termes et conditions énoncées dans les présentes, les travaux de constructions énumérés dans les présentes, et sur toute feuille ci-annexée au(x) prix indiqué(s).

\_\_\_\_\_  
Nom et titre de la personne autorisée à signer au nom du soumissionnaire  
(en lettres moulées ou dactylographiées)

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

Nous acceptons votre soumission de vendre à la CCN, aux conditions énoncées ou incluses par référence dans les présentes, et aux annexes ci-jointes, les services de constructions énumérés dans les présentes, et sur toute feuille ci-annexée au(x) prix indiqué(s).

\_\_\_\_\_  
Non et titre de la personne autorisée à signer au nom de la CCN  
(en lettre moulées ou dactylographiées)

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date



December 17, 2014

Via e-mail:  
Paul.charron@ncc-ccn.ca

Mr. Paul Charron  
National Capital Commission  
40 Elgin Street  
Ottawa, ON

Re: OTT-00218432-H3 **Limited Asbestos Sampling Program  
Roof and Various Rooms Sampling Program  
Main Building, Ottawa**

Dear Mr. Charron:

## 1.0 INTRODUCTION

**Exp Services Incorporated (exp)** was requested by the National Capital Commission (NCC) to collect some building materials samples from the walls and ceilings that are to be disturbed in preparation of proposed ventilation system upgrades.

## 2.0 SAMPLING EVENT

On December 9, 2014, Mr. Shawn Doherty, P.Eng. of **exp** conducted the on-site sampling and was escorted by Marcel (building inspector with the NCC), whom directed Mr. Doherty to the specific areas to which samples were to be collected. Refer to the attached table for the current building summary table of samples collected in 2014.

The work program did not consist of a detailed Designated Substance Survey or comprehensive sampling program. Instead, it consisted of the sampling of select construction materials / building areas to determine the presence/absence of asbestos as well as paint sampling from a specific railing for lead.

### ***Asbestos Sampling***

The samples were collected in general accordance with Ontario Regulation 278/05 and the number of samples collected is considered to be representative of the building materials. As per O.Reg. 278/05, a building material is considered asbestos-containing, and therefore subject to the protocols of the regulation, if the material contains 0.5% or more of asbestos from one or more of the samples collected for the specific homogeneous building material. It is understood that not all samples were collected in accordance with the minimum sampling requirements as stipulated under O.Reg. 278/05 due to the number of additional samples already collected by others within the facility and given the limited nature of the sampling program (i.e. a specific wall and/or duct and/or bulkhead).

All asbestos samples were submitted to Crisp Analytical (Crisp) in Baton Rouge, Louisiana. This laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) by the National Institute of Standards and Technology for analysis of bulk materials for asbestos.

Analyses were performed in accordance with the method outlined in the *Regulation Respecting Asbestos on Construction Projects and in Buildings and Repair Operations (O.Reg. 278/05)*, made under the *Occupational Health and Safety Act*, IRSST Method 224-1 and the EPA/600/R-93-116 Method for the Determination of Asbestos in Bulk Building Materials.

### **Lead Sampling**

Lead sampling was limited to the collection of an individual paint sample from an exterior stair well. The samples were submitted for lead analysis and compared against the applicable Federal surface coating criteria.

## **3.0 OBSERVATIONS AND RESULTS**

### **Ballroom Roof**

- It is exp's understanding that the ballroom roof is to be replaced and will likely impact the flashing and the plaster walls that surround the roof. The following materials were observed within the roof space:
  - Roof: A roof-cut was completed by George Cyr roofing. It was determined that the roof consisted of a black tar/bitumen material over blue foam insulation / foamboard. The roof was determined to be the same as that observed during roof cuts completed as part of the elevator DSS program completed by exp in April, 2014 (OTT-00218432-F0). As such, a single sample was submitted to confirm the absence of asbestos. Based on the laboratory results, the ballroom roof was determined not to contain asbestos.
  - Caulking / Sealant: Two samples of grey caulking were collected from the ballroom roof (AS-2a,b) whereas AS-2c was collected from the dining room roof. The caulking was collected along the roof / wall flashing material. Based on the analytical results, the caulking material was determined not to contain asbestos.
  - Plaster: The roof and the associated flashing about plaster walls to the west and south of the roof. Three samples of the plaster were collected from the western wall and a fourth sample was collected from the southern wall (AS-1a,b,c,d). The plaster is coated in a beige paint. Based on the analytical results, the plaster material was determined to contain 2% of chrysotile asbestos. Based on the above, plaster materials that border the ballroom roof are deemed to be asbestos-containing.

*Recommendation: If more than 1m<sup>2</sup> of the plaster is to be disturbed as part of the roof renovation program, the disturbance of the plaster material would have to be completed in accordance with modified outdoor Type 3 operations as per Section 15 to 18 of O.Reg. 278/05. Alternatively, a Type 2 operation as per Section 15 and 16 can be used.*

- Paint was collected from the railing that leads from the ballroom roof to the elevator roof. The paint sample was submitted for lead analysis and was determined to contain less than 90 ppm of lead. Therefore, the paint is not deemed to be lead-based.

### **Dining Room Roof**

- It is exp's understanding that the dining roof is to be replaced and will likely impact the flashing and the stone walls that surround the roof. The following materials were observed within the roof space:
  - Roof: A roof-cut was completed by George Cyr roofing. It was determined that the roof consisted of black tar/bitumen layers between fibreboard and insulation. Based on discussions with George Cyr staff, the dining room roof is reportedly consistent throughout the entire dining room. A sample from the entire roof cross section was submitted for analysis (AS-4). Based on the laboratory results, all of the roof materials were determined not to contain asbestos.
  - Caulking / Sealant: As previously discussed, caulking samples collected from both roofs (AS-2a,b,c) were determined not to contain asbestos.

There are no special asbestos recommendations regarding the handling of materials on this roof.

#### **Mechanical Room / Tent Serveries Room**

- This room consists of an unfinished mechanical room with concrete block walls, poured concrete floors with a steel deck ceiling. The following materials were sampled as part of this work program
  - Pipe / Duct insulation: Canvas around fibreglass insulation was observed, collected and submitted for analysis from around pipe, ductwork and a valve (AS-5, 7, 9). The canvas material appeared to have a thin layer of paint and/or parging associated with it. Based on the laboratory results, the various canvas wraps were determined not to contain asbestos.
  - Grey ductwork sealant: Grey sealant material around the metal ductwork was observed, collected and submitted for analysis. Given the limited amount of sealant, only two samples were collected (AS-6a,b). Based on the laboratory results, the ductwork sealant was determined not to contain asbestos.
  - Drywall compound: A limited amount of bulkheads were observed within the mechanical room. As such, two samples of drywall compound were collected and submitted for analysis (AS-8a,b). Based on the laboratory results, the drywall compound was determined not to contain asbestos.

There are no special asbestos recommendations regarding the handling of the aforementioned materials in the mechanical room.

#### **Ballroom Serveries Room**

- This room consists of white on grey wall and ceiling plaster with acoustic drop-down ceilings. The following materials were sampled as part of this program:
  - Wall / ceiling plaster: White on grey plaster was observed to form the walls and ceilings of the serveries room. In addition, this plaster also extended to the hallway. A total of five plaster samples (AS11-a,b,c,d,e) were collected from the serveries room and one plaster sample (AS-12) was collected from the hallway. The plaster was observed to consist of a white textured plaster over grey coarse plaster. Based on the laboratory results, the plaster within the serveries room and the adjacent hallway does not contain asbestos.
  - Ceiling tile: Drop ceiling tiles were observed within the serveries room. The tiles were 2'by4' solid ceiling tile with no visible pattern. Three samples were collected (AS-10a,b,c) and submitted for analysis. Based on the laboratory results, the ceiling tiles were determined not to contain asbestos.

There are no special asbestos recommendations regarding the handling of the aforementioned materials in the ballroom serveries room.

## **4.0 CLOSURE**

The services performed and outlined herein were based in part upon visual observations of the site and attendant structures. Our opinion cannot be extended to portions of the site that were unavailable for direct observation by objects or coverings at the time of our observations.

Any of our observations relating to designated substances at the site are described in this report. Where testing was performed, it was executed in accordance with our contract for these services. It should be noted that other compounds or materials not tested for might be present in the building.

The objective of this report was to survey the environmental conditions at the site within the context of our contract with respect to the existing regulations within the applicable jurisdiction. Compliance of past and current owners with applicable local, provincial and federal government laws and regulations was not included in our contract for services.

The conclusions of this report are based, in part, on the information provided by others and any testing and analyses described in the report. The possibility remains that unexpected environmental conditions may be encountered at the site locations not explored. Should such an even occur, exp should be notified in order that we may determine if modifications to our conclusions are necessary.

This report has been prepared in accordance with generally accepted environmental study and/or engineering practices. No other warranties, expressed or implied, are made as to the professional service provided under the terms of our contract and included in this report.

We trust this report is satisfactory for your purposes. If you have any questions regarding our submission, please do not hesitate to contact this office.

Yours truly,

exp Services Inc.



Shawn Doherty, P.Eng.  
Environmental Engineer  
Earth and Environment



Mark McCalla, P.Geo.  
Environmental Scientist  
Earth and Environment

SD / MM

Attachments:    1: Site Photos  
                         2: Laboratory Certificate of Analysis



**Attachment 1:  
Figures / Photos**





**Photograph No. 1**

Asbestos-containing wall plaster. Roof and caulking around flashing is non-asbestos.



**Photograph No. 2**

Non-asbestos canvas wrap (mechanical room).



**Photograph No. 3**

Non-asbestos ceiling/wall plaster debris on ceiling tile (serveries room).



**Photograph No. 4**

Non-asbestos ceiling tile (serveries room).



**exp Services Inc.**

*National Capital Commission  
Roof / Various Room Sampling Program  
Ottawa, ON  
OTT-00218432-H4  
December 17, 2014*

## **Attachment 2: Laboratory Certificates of Analysis**

**Building Summary Table**  
**Rideau Hall Sampling Programs**

Table summarizes previous sampling programs and is not a comprehensive building summary table (for information purposes only)

Building Section	Room Number	General Building Construction				Potential Asbestos-Containing Materials					Potential Lead Paint				Mercury		PCB		ODS	Other
		Walls	Floor	Ceiling	Piping / Ductwork	Asbestos Sample Description	Friability (F/NF)	Sample Number	Laboratory Result	Condition	Paint Colour	Sample Number	Lead Result (µg/g)	Condition	Fluorescent Light	Thermostat	Ballasts	Transformers	ODS	
Main Floor (Elevator Sampling)	Hallway	ceramic tile on potential white texture on grey plaster	rubber / battleship flooring	stippled ceiling bulkhead near elevator entrance	not applicable	stippled plaster	F	AS-3	ND		Paint associated with stippled	none		good	2 tubes in area	none	1 ballast	none	none	none
						potential plaster behind ceramic tile														
	Elevator Room 202	north wall / facing elevator - soft white/grey plaster	poured concrete floor	concrete ceiling - potential plaster thin coat	asbestos elbow pipe insulation	mud elbows - identified as asbestos on site	F	none collected	confirmed asbestos	good										
		west wall / facing corridor 174 - white textured plaster on grey coarse plaster				soft white / grey plaster - north wall	F	AS-2	ND											
					white textured plaster on grey coarse plaster	F	AS-1c, 1d	AS-1c - 3% C in white plaster, grey = ND AS-1d = ND in all layers	damaged plaster on base near loor	white primer paint / plaster	none		good	2 tubes	none	1 ballast	none	none	none	
Floor 1	Corridor 1371 (Elevator Sampling)	brown painted white textured on grey coarse plaster	carpet	white textured plaster potentially on grey plaster	not applicable	white textured plaster on grey coarse pl	F	AS-1b	white texture with some potential grey debris - ND		brown / taupe	none		good	none	none	none	none	none	
	Dining Room CBR14061700 (June 5, 2014)	Not assessed	Not assessed	white textured plaster on grey plaster	not assessed	white textured plaster	F	AS-1a,b,c	ND - to 1% PLM 0.3% via Point count											
						grey base plaster	F	AS-2a,b,c	1 to 3% C (PLM)											
Floor 2	Corridor 2271	cream painted white textured coat on grey coarse plaster	carpet	white textured plaster potentially on grey plaster	not applicable	white textured plaster on grey coarse pl	F	AS-1a	white textured with some potential grey debris- ND		cream	none		good	none	none	none	none	none	
	State Bedroom (Sauve) CBR14061700 (July 1, 2014)	Not assessed	Not assessed	white textured plaster on grey coarse plaster	not assessed	white textured plaster	F	AS-1a,b,c												
						grey base plaster	F	AS-2a,b,c												
Roof (Elevator Sampling)		some greyish caulking along roof siding	gravel material with black tar and blue foam insulation	not applicable	not applicable	blue foam insulation and black tar roof	NF	AS-5a, b	ND		none			none	none	none	none	Ref Plus chiller system on roof	none	
Exterior	North Wall (Outside Kitchen) (July 22, 2014)	soft whitish plaster over grey coarse plaster at central wall	not applicable	not applicable	not applicable	softish whitish plaster	F	AS-1a,c,e	ND											
		whitish / grey plaster (hard) at northwest wall				whitish / grey hard plaster	F / NF	AS-1b,d	2% C	good condition / hard	LS1	122		fair, some flaking						
		grey coarse plaster/ behind soft whitish p					F	AS-2	ND											

**Building Summary Table**  
**Rideau Hall Sampling Programs**

Table summarizes previous sampling programs and is not a comprehensive building summary table (for information purposes only)

Monck Wing Building Summary Table																					
Building Section	Room Number	General Building Construction				Potential Asbestos-Containing Materials					Potential Lead Paint				Mercury		PCB		ODS	Other	
		Walls	Floor	Ceiling	Piping / Ductwork	Asbestos Sample Description	Friability (FINF)	Sample Number	Laboratory Result	Condition	Paint Colour	Sample Number	Lead Result (µg/g)	Condition	Fluorescent Light	Thermostat	Ballasts	Transformers	ODS		
Monck Wing Basement	320	north wall - white on grey plaster east wall - white on grey plaster = lath west wall - white on grey plaster-lath south wall - drywall then about 2 void space - concrete (white plaster on window well)	carpet on wood floor	white on grey plaster - lath		white on grey plaster applied to a lath south wall is white plaster at window well	F	AS-320-a (east wall) AS-320-b (north wall) AS-320-c (west wall) AS-320-d (south wall) AS-320-e (ceiling)	ND - all layers and all samples (assume white layer is asbestos)												
	324	north wall - white on grey plaster southwest wall - white on hard dark grey northwest wall - white on grey plaster east wall - white on grey plaster south wall - drywall (window well is white texture coat)	carpet over wood	white on grey plaster - lath		white on grey plaster white plaster on window well	F	AS-324-1a (north wall) AS-324-1b (east wall) AS-324-1d (northwest wall) AS-324-1e (window well) AS-324-1f (ceiling)	ND - all layers and all samples (assume white layer is asbestos)												
						white on hard grey plaster	F	AS-324-1c	2% C												
	328	north wall - white on grey plaster east wall - white on grey plaster west wall - white on grey plaster south wall - white plaster on drywall or stone	carpet on wood	potential plaster thin coat on drywall then lath?		white on grey plaster	F	AS-328-1a (north wall) AS-328-1b (east wall) AS-328-1c (west wall) AS-328-1d (south wall)	ND - both layers ND - both layers ND - 4% C ND												
						white on drywall or stone															
						ceiling plaster	F	AS-328-2a	ND - assume asbestos												
	332	north wall - white on grey plaster north east - brownish/grey plaster west - softish grey plaster south - pressboard on greyish plaster window well - white plaster	white linoleum floor over rotten	white on grey plaster		white on grey plaster	F	AS-332-1a (west) AS-332-1b (north) AS-332-1c (northeast column) AS-332-1d (south) AS-332-1e (window) AS-332-1f (ceiling)	ND - white and grey B sample - 1% C with PLM, trace C using point count - white debris ND - white on grey ND - grey debris ND - white plaster ND - white on grey												Not assessed in detail
						brownish plaster	F	AS-332-3	ND												
						linoleum floor	NF	AS-332-4a	ND												
	336	west wall - drywall on red brick south wall - drywall on red brick east wall - drywall walls north wall - drywall wall	carpet on wood	ceiling tiles followed by drywall and compound (2 layers of drywall)		drywall compound	F	AS-336-5a (ceiling) AS-336-5b.c (south) AS-336-5d (east)	ND - all samples												
	340	drywall walls throughout, north on red brick	ceramic tile	drywall with compound		drywall compound	F	no sample													
	330	south wall - white on grey plaster east wall - white on grey plaster south wall - pressboard window well - white plaster west - white on grey plaster	black floor tile	white on grey ceiling plaster		white on grey plaster	F	AS-330-1a - south AS-330-1b east AS-330-1c - north AS-330-1d west AS-330-1e ceiling	ND - all samples and all layers (assume white layer is asbestos)												
					black floor tile	NF	AS-330-6a														
326	all walls are white on grey	carpet on wood	white on grey		white on grey	F	AS-326-1a - north AS-326-1b - south AS-326-1c-east AS-326-1d-west AS-326-1e ceiling	ND - all samples and all layers (assume white layer is asbestos)													

**Building Summary Table**  
**Rideau Hall Sampling Programs**

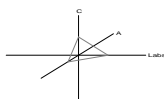
Table summarizes previous sampling programs and is not a comprehensive building summary table (for information purposes only)

December 10, 2014 Work Program		General Building Construction				Potential Asbestos-Containing Materials					Potential Lead Paint				Mercury		PCB		ODS	Other
Building Section	Room Number	Walls	Floor	Ceiling	Piping / Ductwork	Asbestos Sample Description	Friability (FINF)	Sample Number	Laboratory Result	Condition	Paint Colour	Sample Number	Lead Result (µg/g)	Condition	Fluorescent Light	Thermostat	Ballasts	Transformers	ODS	Other
Ballroom Roof		paint coated wall plaster on concrete form the exterior walls facing the roof, caulking around flashing	gravel on bitumen on blue foam insulation on additional bitumen	not applicable	not applicable	Exterior wall plaster	F	AS-1a,b,c: western wall; AS-1d: southern wall	2% chrysotile	good	beige									
						bitumen roof materials	NF	AS-3	ND		black railing	LS-1	<87 (non-lead)							
						grey caulking/sealant on flashing	NF	AS-2a,b	ND											
Dining Room Roof		stone walls, caulking around flashing	bitumen on yellow foam on fibreboard	non applicable	not applicable	bitumen roof materials	NF	AS-4	ND - all three layers (roofing, fibreboard, insulation)											
						grey caulking / sealant on flashing	NF	AS-2c	ND											
Mechanical Room - Tent Room Servery		concrete block walls with some temporary drywall walls	concrete floor	corrugated metal ceiling	canvas around foil and/or fibreglass	canvas wrap around piping	F	AS-5	ND											
						grey mechanical ductwork sealant	NF	AS-6a,b	ND											
						duct wrap canvas wrap	F	AS-7	ND											
						drywall compound	F	AS-8a,b	ND											
Servery Area - Ballroom		white on grey wall plaster	not reviewed in detail	Ceiling tile: 2' by 4' with no holes	canvas wrap around 2' by 4' ceiling tile - no holes	white on grey plaster	F	AS-10a,b,c	ND											
						white on grey plaster	F	AS-11a,b,c,d,e	ND - white and grey plaster											
						white on grey plaster - servery hallway	F	AS-12	ND - white on grey plaster											

Not Assessed in detail

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## **Materials Characterization - Bulk Asbestos Analysis**

### **Laboratory Analysis Report - Polarized Light**

#### **exp Services, Inc.**

100-2650 Queensview Dr.  
Ottawa, ON K2B 8H6

Customer Project: 218432-Rideau  
Reference #: CBR14123982

Date: 12/15/2014

#### **Analysis and Method**

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved)). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are performed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

#### **Discussion**

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found by PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

#### **Qualifications**

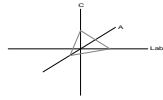
CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one these disciplines. Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of AIHA accreditation. Analysis performed at CA Labs, LLC 12232 Industriplex, Suite 32 Baton Rouge, LA 70809.

Baton Rouge NVLAP Lab Code 200772-0 TEM/PLM  
LDEQ

TDH 30-0370

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Overview of Project Sample Material Containing Asbestos

Customer Project:		218432-Rideau		CA Labs Project #:	CBR14123982
Sample #	Layer #	Analysts	Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
					<b>White Surfaced Gray Plaster</b>
AS-1A	1		White Surfaced Gray Plaster	<b>2% Chrysotile</b>	
AS-1B	1		White Surfaced Gray Plaster	<b>2% Chrysotile</b>	
AS-1C	1		White Surfaced Gray Plaster	<b>2% Chrysotile</b>	
AS-1D	1		White Surfaced Gray Plaster	<b>2% Chrysotile</b>	

Baton Rouge NVLAP Lab Code 200772-0 TEM/PLM  
**LDEQ**

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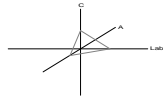
**Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):**

ca - carbonate	pe - perlite	fg - fiberglass	pa - palygorskite (clay)
gypsum - gypsum	qu - quartz	mw - mineral wool	
bi - binder		wo - wollastinite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
mi - mica		ce - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

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## Polarized Light Asbestiform Materials Characterization

**Customer Info: Attn:**  
**exp Services, Inc.**  
100-2650 Queensview Dr.  
Ottawa, ON K2B 8H6

**Customer Project:**  
218432-Rideau

**CA Labs Project #:**  
CBR14123982

Phone # 613-688-1899  
Fax # 613-225-7337

**Turnaround Time:** 24 hr

**Date:** 12/15/2014

**Samples Received:** 12/12/2014

**Date Of Sampling:**

**Purchase Order #:**

Sample #	Com ment	Layer #	Analysts Physical Subsample	Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
AS-1A		1		White Surfaced Gray Plaster	N	2% Chrysotile		98% qu, bi, ma, ca
AS-1B		1		White Surfaced Gray Plaster	N	2% Chrysotile		98% qu, bi, ma, ca
AS-1C		1		White Surfaced Gray Plaster	N	2% Chrysotile		98% qu, bi, ma, ca
AS-1D		1		White Surfaced Gray Plaster	N	2% Chrysotile		98% qu, bi, ma, ca
AS-2A		1		Gray Sealant	Y	None Detected		100% qu, bi, ca
AS-2B		1		Gray Sealant	Y	None Detected		100% qu, bi, ca
AS-3		1		Various Black Tar	N	None Detected	3% ce	97% qu, bi

Baton Rouge NVLAP Lab Code 200772-0 TEM/PLM

TDH 30-0370

### LDEQ

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)

Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Alicia Stretz  
Analyst

Senior Analyst  
Alicia Stretz

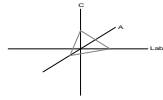
Laboratory Director  
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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## Polarized Light Asbestiform Materials Characterization

**Customer Info: Attn:**  
**exp Services, Inc.**  
100-2650 Queensview Dr.  
Ottawa, ON K2B 8H6

**Customer Project:**  
218432-Rideau

**CA Labs Project #:**  
CBR14123982

Phone # 613-688-1899  
Fax # 613-225-7337

**Turnaround Time:** 24 hr

**Date:** 12/15/2014

**Samples Received:** 12/12/2014

**Date Of Sampling:**

**Purchase Order #:**

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
AS-4		1	Black Roofing with White Gravel	N	None Detected	3% ce	97% qu, bi
		2	Brown Fiberboard	Y	None Detected	100% ce	
		3	Yellow Foam Insulation	Y	None Detected		100% ot
AS-2C		1	Clear Sealant	Y	None Detected		100% qu, bi, ca
AS-5		1	Tan Wrap on Foil	N	None Detected	10% fg 15% sy 70% ce	5% qu, ma, ot
AS-6A		1	Gray Sealant	Y	None Detected		100% qu, bi, ca
AS-6B		1	Gray Sealant	Y	None Detected		100% qu, bi, ca

Baton Rouge NVLAP Lab Code 200772-0 TEM/PLM

TDH 30-0370

### LDEQ

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Alicia Stretz  
Analyst

Senior Analyst  
Alicia Stretz

Laboratory Director  
Chris Williams

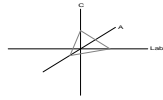
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## Polarized Light Asbestiform Materials Characterization

**Customer Info:**   **Attn:**  
**exp Services, Inc.**  
100-2650 Queensview Dr.  
Ottawa, ON K2B 8H6

**Customer Project:**  
218432-Rideau

**CA Labs Project #:**  
CBR14123982

Phone #   613-688-1899  
Fax #     613-225-7337

**Turnaround Time:** 24 hr

**Date:** 12/15/2014

**Samples Received:** 12/12/2014

**Date Of Sampling:**

**Purchase Order #:**

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
AS-7		1	Tan Wrap on Foil	N	None Detected	10% fg 15% sy 70% ce	5% qu, ma, ot
		2	Yellow Fibrous Insulation	N	None Detected	100% fg	
AS-8A		1	White Compound	Y	None Detected		100% mi, qu, ca
AS-8B		1	White Compound	Y	None Detected		100% mi, qu, ca
AS-9		1	White Wrap on Foil	N	None Detected	10% fg 15% sy 70% ce	5% qu, ma, ot
		2	White Wrap	Y	None Detected	10% sy 80% ce	10% qu, ma
		3	Yellow Fibrous Insulation	Y	None Detected	100% fg	

Baton Rouge NVLAP Lab Code 200772-0 TEM/PLM

TDH 30-0370

### LDEQ

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)  
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gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

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Analyst

Senior Analyst  
Alicia Stretz

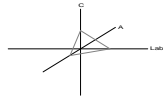
Laboratory Director  
Chris Williams

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## Polarized Light Asbestiform Materials Characterization

**Customer Info: Attn:**  
**exp Services, Inc.**  
100-2650 Queensview Dr.  
Ottawa, ON K2B 8H6

**Customer Project:**  
218432-Rideau

**CA Labs Project #:**  
CBR14123982

Phone # 613-688-1899  
Fax # 613-225-7337

**Turnaround Time:** 24 hr

**Date:** 12/15/2014

**Samples Received:** 12/12/2014

**Date Of Sampling:**

**Purchase Order #:**

Sample #	Com ment	Layer #	Analysts Physical Subsample	Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
AS-10A		1		Tan Ceiling Tile	Y	None Detected	20% fg 70% ce	10% qu, pe
AS-10B		1		Tan Ceiling Tile	Y	None Detected	20% fg 70% ce	10% qu, pe
AS-10C		1		Tan Ceiling Tile	Y	None Detected	20% fg 70% ce	10% qu, pe
AS-11A		1		White Surfaced White Finishing Plaster	N	None Detected		100% qu, bi, ca
		2		Gray Plaster	Y	None Detected	2% sy	98% qu, ca
AS-11B		1		Gray Plaster	Y	None Detected	2% sy	98% qu, ca
AS-11C		1		Tan Surfaced White Finishing Plaster	N	None Detected		100% qu, bi, gy, ca

Baton Rouge NVLAP Lab Code 200772-0 TEM/PLM

TDH 30-0370

### LDEQ

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Alicia Stretz  
Analyst

Senior Analyst  
Alicia Stretz

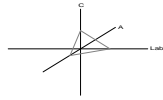
Laboratory Director  
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

**CA Labs**  
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Quality

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Fax 972-242-2798



**CA Labs, L.L.C.**  
12232 Industriplex, Suite 32  
Baton Rouge, LA 70809  
Phone 225-751-5632  
Fax 225-751-5634

**Polarized Light Asbestiform Materials Characterization**

**Customer Info: Attn:**  
**exp Services, Inc.**  
100-2650 Queensview Dr.  
Ottawa, ON K2B 8H6

**Customer Project:**  
218432-Rideau

**CA Labs Project #:**  
CBR14123982

Phone # 613-688-1899  
Fax # 613-225-7337

**Turnaround Time:** 24 hr

**Date:** 12/15/2014

**Samples Received:** 12/12/2014

**Date Of Sampling:**

**Purchase Order #:**

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		2	Gray Plaster	Y	None Detected	2% sy	98% qu, ca
AS-11D		1	White Surfaced White Finishing Plaster	N	None Detected		100% qu, bi, gy, ca
AS-11E		1	Gray Plaster	Y	None Detected	2% sy	98% qu, ca
AS-12		1	White Surfaced White Finishing Plaster	N	None Detected		100% qu, bi, gy, ca
		2	Gray Plaster	Y	None Detected	2% sy	98% qu, ca

Baton Rouge NVLAP Lab Code 200772-0 TEM/PLM

TDH 30-0370

**LDEQ**

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)  
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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

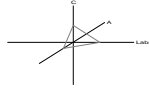
Alicia Stretz  
Analyst

Senior Analyst  
Alicia Stretz

Laboratory Director  
Chris Williams

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3. Actinolite in association with Vermiculite  
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8. Favorable scenario for water separation on vermiculite for possible analysis by another method  
9. < 1% Result point counted positive  
10. TEM analysis suggested



## Atomic Absorption Lead Report

Analysis Method: Lead in Paint analyzed by Atomic Absorption (AA)/SW-846-7420;  
This analysis is not covered by the scope of accreditation by NVLAP or AIHA.

Sample Prep Method: Samples are dissolved in nitric acid, extracted, and analyzed on a properly calibrated AA; Absorbency curve was calculated, bandwidth corrected, and wavelength at the time of the analysis was measured and recorded.

**Client Information:**  
exp Services, Inc.  
100-2650 Queensview Dr.  
Ottawa, ON K2B 8H6

**Phone:** 613-225-9940

**Fax:** 613-225-7337

**Client Project:**  
218432-Rideau

**Turnaround Time:** 24 hr

**Attn:** Shawn Doherty

**CA Labs Project #:**  
CBR14123983

**Date:** 12/15/2014

**Samples Received:** 12/12/2014

**Purchase Order #:**

Sample#	Sample Concentration: parts per million (ppm)	Weight Percent:
LS-1	<87.34	<0.0087
Lab Blank	< 1.00	----

**Quality Control:**

**Duplicate:** 0.05 RPD  
**Spike:** 98.8 % Recovery

NVLAP # 200772-0

Approved Signatories:

Stanley Massett III  
Analyst

TDH # 30-0370

Page 1 of 1

Christopher Williams  
Laboratory Director

Alicia Stretz  
Senior Analyst

Notes:  
The current guidelines for lead in paint from the Consumer Products Safety Council (CPSC) is 0.06% by weight; the Housing and Urban Development (HUD) guideline is 0.5% by weight.

This test report relates only to the items tested.

This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and condition of sale, including the company's standard warranty and limitation of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee may be assessed for the return of any samples.

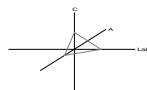
Analysis performed at CA Labs, LLC, 12232 Industriplex Blvd, Suite 32, Baton Rouge, LA 70809. Phone 225-751-5632, fax 225-751-5634, after hours mobile 225-993-3471.

**CA Labs**

Dedicated to  
Quality

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Phone 972-488-1414  
Fax 972-488-8006



**CA Labs, L.L.C.**

12232 Industriplex, Suite 32  
Baton Rouge, LA 70809  
Phone 225-751-5632  
Fax 225-751-5634

**ATOMIC ABSORPTION  
LEAD ANALYSIS  
LABORATORY ANALYSIS REPORT**

**exp Services, Inc.**

100-2650 Queensview Dr.  
Ottawa, ON K2B 8H6  
reference number: CBR14123983

**LABORATORY ANALYSIS:**

Summary of lead analysis by atomic absorption in all relevant media using the method described in SW-846-7420. All analysts have received the necessary in-house and extramural training to perform analysis of samples for the presence of lead. A duplicate analysis is performed on greater than ten percent of all samples. A spiked concentration sample is analyzed with each sample group for instrument calibration. All analysts are required to participate in quality control analysis rounds. Instrument calibrations are performed on a daily, weekly, and monthly basis.

This report must not be used to claim product endorsement by AIHA or any agency of the U.S. Government. This test relates only to the items described and tested herein. This report may not be reproduced except in full, without written permission by CA Labs.

**METHOD:**

The procedure for paint chip analysis follows AOAC5.009(974.02) and SW-846-7420. The analysis of soil, wipes, and wastewater for the presence of lead is also referenced by SW-846-7420. Methodology for the analysis of lead in air samples follows NIOSH Method 7082.

Analysis performed at CA Labs, LLC. 12232 Industriplex Blvd, Suite 32, Baton Rouge, LA 70809. Phone 225-751-5632, fax 225-751-5634, after hours mobile 225-993-3471.