

ADDENDUM NO. 2

Project:	PESC Fume Hood Recapitalization	Project / File No:	190001
Project Address:	2645 Dollarton Avenue, North Vancouver, BC	Date:	August 24 th , 2017
Tender Issue Date:	2017-07-28		
Tender Close Date:	2017-08-28	No. of Pages:	Twenty-nine written pages.

This addendum shall form part of, and be included in, the contract drawings and specifications originally issued for the above named project and no consideration will be given to request for extras to this Contract due to the Contractor not being familiar with the Addendum. Please acknowledge receipt of the Addendum on the Tender Form.

The following attached information forms part of this Addendum:

SPECIFICATIONS:

- 1. Section 00 01 10 Table of Contents:
 - a. Add Appendix A: Project-Specific Hazardous Building Materials Assessment Site Review Report as attached herein.





PROJECT-SPECIFIC HAZARDOUS BUILDING MATERIALS ASSESSMENT – SITE REVIEW REPORT

Project:	Fume Hood Recapitalization Project		
Client:	Public Services and Procurement Canada	Stantec Project #:	123220871
Stantec Site Assessor:	Keith Irwin	Date of Site Visit:	April 25, 2017
Location:	Pacific Environmental Science Center, 2645 Dollarton Avenue North Vancouver, BC	Issue Date:	May 16, 2017

BACKGROUND

Stantec was retained by Public Services and Procurement Canada (PSPC) to conduct an areaspecific, pre-renovation hazardous building materials assessment in support of the fume hood recapitalization project (the Project) for the Pacific Environmental Science Center (subject building). The assessment was limited to those building materials that may be impacted during the Project, which will occur specifically within rooms B113, B114, B115, B116, B117, the adjacent corridors, the B block main electrical room, the B block mechanical mezzanine and the B block roof (subject areas).

The purpose of the site review was to assess for hazardous building materials, particularly asbestoscontaining materials (ACMs), lead-containing paints (LCPs), and ducting components with chemical residues that may require special handling and/or disposal practices in accordance with the requirements of the Canada Labour Code, Part II (Canada Labour Code) and the current version of British Columbia's Occupational Health and Safety Regulation (BC Reg. 296/97), during the Project.

STANDARDS, SCOPE AND METHODOLOGY

Applicable standards for each hazardous material considered during this assessment are summarized below, along with the scope and methodology completed pertaining to those materials, during this assessment.

- Asbestos
 - The presence of asbestos in federal workplaces, and pertaining to federally regulated workers is governed by the Canada Labour Code. The presence of asbestos in the workplace in British Columbia pertaining to provincially regulated workers is governed by BC Reg. 296/97. As primarily provincially regulated workers (e.g., contractors) are expected to carry out work activities associated with the Project, and as the provincial regulations are generally more prescriptive pertaining to asbestos (and generally include the requirements noted in the Canada Labour Code), this assessment was conducted to meet the requirements of BC Reg. 296/97.
 - According to the current version of BC Reg. 296/97, ACM means any material containing at least 0.5% asbestos, or vermiculite insulation with any asbestos.
 - The building materials that may require alteration during the Project, as directed by facility staff, were visually assessed for the presence of suspected ACMs.



- Where observed, samples were collected from each "homogenous application" of suspected ACMs (materials suspected to contain asbestos that are uniform in material type, colour, texture application and estimated installation date—and for materials that had not been sampled or assessed previously) and submitted to EMSL Canada Inc. (EMSL) in Burnaby, British Columbia for analysis of asbestos content using polarized light microscopy (PLM) with dispersion staining, in accordance with the United States Environmental Protection Agency (EPA) 600/R-93/116 analytical method "Asbestos (bulk) by PLM." EMSL's analytical laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).
- The number of samples collected for each homogenous application of a suspected ACM was based on the recommendations provided in the WorkSafeBC publication Safe Work Practices for Handling Asbestos, 2012 (BC Asbestos Guide) along with the assessor's experience and understanding of the consistency of the application of building materials.
 - When asbestos is detected in concentrations greater than one half of one percent in one of the samples within a set that was collected to represent a "homogenous application" of a particular material (or detected in any concentration, in a set of samples collected for applications of vermiculite), the entire sample set and the entire application of that material is then considered to be an ACM.
- Lead
 - Exposure to lead is governed by the Canada Labour Code for federal workers, and by BC Reg. 296/97 for provincially regulated workers. According to both regulations, the Occupational Exposure Limit for lead is 0.05 milligram per cubic metre (mg/m³).
 - According to the WorkSafeBC manual titled Lead-Containing Paint and Coatings: Preventing Exposure in the Construction Industry (BC Lead Guideline), "...the improper removal of lead paint containing 600 mg/kg lead results in airborne lead concentrations that exceed half of the exposure limit". As the exposure limit for lead that is referenced in both federal and provincial regulations is the same, Stantec will reference this value (600 mg/kg, equivalent to 600 parts per million, or "ppm") in defining paints as "leadcontaining".
 - Samples of potential LCPs were collected from major paint applications on building materials that may be impacted during the Project.
 - The sampling of paint applications involved the collection of paint chip samples of paint layers to the substrate, where possible. Samples collected were submitted to EMSL for analysis of total lead content using EPA Method SW 846 3050B*/7000B. EMSL's analytical laboratory is also accredited by the AIHA Environmental Lead Laboratory Approval Program (ELLAP).
- Ducting components with hazardous residues
 - Fume hoods are typically designed to remove gases, vapours, mists, fumes or airborne
 particulate associated with the hazardous chemicals that are used in them, to mitigate the
 potential for exposures for personnel using the chemicals.
 - Various hazardous chemicals may be susceptible to "hazardous deposition" inside fume hood ducting, particularly if the ducting and ventilation units are not functioning as intended.
 - If chemical deposits are present inside fume hood ducting, removal of such ducting may pose risks to workers conducting the removal.



- The potential for hazardous substance residue/deposits within fume hood ducting and exhaust systems was assessed by conducting the following:
 - o Review of information provided by site staff regarding the types of chemicals used over the life-span of the fume hoods
 - o Collecting Safety Data Sheets (SDSs) for chemicals used in the fume hoods
 - Visually assessing the interior conditions of the fume hoods for potential hazardous substance residue/deposits at the following locations:
 - Main work-bench
- Flex duct connection joints above exhaust fan units in the mechanical mezzanine
- Other hazardous building materials
- Various other hazardous building materials may be present that would have special handling and/or disposal considerations if they were to be impacted during the Project, but not limited to, electrical equipment with polychlorinated biphenyls (PCBs), mould and/or moisture impacted building materials, equipment with ozone-depleting substances, items or equipment containing mercury and building materials containing silica.
- Assessment for the presence of other hazardous building materials was completed through visual means, as follows, specifically pertaining to building materials that may be impacted during the Project:
 - A visual review for the presence of PCBs in electrical equipment was completed.
 Equipment that is generally suspected of containing PCBs includes lamp ballasts,
 transformers, hydraulic systems, compressors, switchgear and capacitors. No sampling of dielectric fluids was undertaken as part of this assessment.
 - o The presence of suspect visible mould was assessed through visual observations. Material observed with dark-coloured staining and/or a textured and discoloured appearance is described as "suspected mould". Mould identified visually is defined as "suspected mould" unless it is confirmed as mould by laboratory analysis.
 - o An assessment for equipment likely to contain ODSs was completed. Information on the type of equipment, manufacturer and type and quantity of refrigerants was recorded, where available.
 - An assessment for equipment that is likely to contain mercury was completed visually. Information on the type of equipment (i.e., gauges, switches, batteries, thermometers, etc.), model and serial numbers and quantities was recorded, where such information was available.
 - o An assessment for the presence of silica was conducted. The presence of silica in building materials such as concrete, masonry, stone, terrazzo, refractory brick, ceramic tile, ceiling tile etc. was noted.

PREVIOUS REPORTS

Stantec reviewed the previous reports outlined below prior to undertaking the assessment:

• Environment Canada Report entitled Hazardous Materials Survey, Pacific Environmental Science Center, 2645 Dollarton Highway, North Vancouver, BC, dated August 13, 2014, prepared by an Environment Canada Employee (Initial Assessment Report)



Stantec reviewed the Initial Assessment Report for information purposes, and the information provided was considered in developing the current assessment and sampling plan.

Site Review Results

With respect to hazardous building materials that may be impacted by the Project, the table below summarizes the findings of the assessment as well as sampling activities undertaken during the current assessment.

Sample locations (for samples collected as part of this current assessment) and locations of identified hazardous building materials (where practical) are provided on the floor plan drawings attached to this document.

Analytical certificates for the suspected ACM and suspected LCP samples collected as part of this assessment are also attached to this document.

Location	Hazardous Building Material Observations	Photo	Samples collected?	Analytical Results
Main floor - fume hoods 28, 31 and 32	Potential asbestos- containing cement panel lining insides of fume hoods		CP-01	No Asbestos Detected
Mechanical mezzanine	Potential asbestos- containing red duct seam mastic applied to fume hood exhaust ducting		DM-01A DM-01B DM-01C	No Asbestos Detected



Location	Hazardous Building Material Observations	Photo	Samples collected?	Analytical Results
Mechanical mezzanine	Potential asbestos- containing grey duct seam mastic applied to supply air ducting		DM-02A DM-02B DM-02C	No Asbestos Detected
Roof	Potential asbestos- containing silver duct seam mastic applied to fume hood exhaust ducting		DM-03A DM-03B DM-03C	No Asbestos Detected
Roof	Potential asbestos- containing clear duct seam mastic applied to fume hood exhaust ducting		DM-04A DM-04B DM-04C	No Asbestos Detected
Roof	Potential asbestos- containing grey roof sealant applied to the base of fume hood exhaust ducting		RS-01A RS-01B RS-01C	No Asbestos Detected



Location	Hazardous Building Material Observations	Photo	Samples collected?	Analytical Results
Mechanical mezzanine	Potential asbestos- containing grey fire stop applied to wall penetrations for fume hood exhaust ducting		FS-01A FS-01B FS-01C	No Asbestos Detected
Mechanical mezzanine	Potential asbestos- containing cream fire stop applied to floor penetration for fume hood 27 exhaust ducting	No Photo Available	FS-02A FS-02B FS-02C	No Asbestos Detected
Main electrical room	Potential asbestos- containing red fire stop applied to wall penetration for sprinkler system piping	No Photo Available	fs-03A fs-03B fs-03C	No Asbestos Detected
Main electrical room	Potential asbestos- containing orange fire stop applied to wall penetration for electrical conduit	No Photo Available	FS-04A FS-04B FS-04C	No Asbestos Detected
Roof	Potential asbestos- containing white/clear roof flashing mastic applied to seams of roof flashing around fume hood exhaust manifold		FM-01A FM-01B FM-01C	No Asbestos Detected



Location	Hazardous Building Material Observations	Photo	Samples collected?	Analytical Results
Mechanical mezzanine	Potential asbestos- containing concrete floor sealant applied to the floor		CFS-01A CFS-01B CFS-01C	No Asbestos Detected
Throughout	Potential asbestos- containing drywall joint compound		DJC-01A DJC-01B DJC-01C DJC-01D DJC-01E	No Asbestos Detected
Roof -	Potential asbestos- containing bitumen roof membrane on fume hood exhaust manifold		RM-01A RM-01B RM-01C	No Asbestos Detected
Block B – Room 106 laboratory storage cabinet	Previously presumed asbestos-containing cement ("Transite") panel on the interior areas of the cabinet – no longer present in this location		Not sampled in Initial Assessment Report – listed as "presumed ACM"	No longer present



Location	Hazardous Building Material Observations	Photo	Samples collected?	Analytical Results
Throughout	Suspected lead- containing red paint on structural steel beams		P-01	1,900 ppm lead
Mechanical mezzanine	Suspected lead- containing green paint on structural steel bracing and columns throughout		P-02	450 ppm lead (current assessment) 1,800 ppm lead (Initial Assessment Report)
Mechanical mezzanine	Suspected lead- containing yellow paint on structural steel beams, bracing, columns and Q-decking throughout		P-03	5,600 ppm lead
Mechanical mezzanine	Suspected lead- containing green paint on concrete floor throughout		P-04	<90 ppm lead



Location	Hazardous Building Material Observations	Photo	Samples collected?	Analytical Results
Mechanical mezzanine	Suspect lead-containing grey paint on drywall walls throughout		P-05	<90 ppm lead
Roof	Suspect lead-containing green paint on steel/aluminum exhaust manifold frame and roof flashing		P-06	1,100 ppm lead
Fume hoods throughout	Suspect lead-containing cream paint		P-07	<740 ppm lead, potential LCP, further sampling may be required depending on work activities planned that will impact this material



Location	Hazardous Building Material Observations	Photo	Samples collected?	Analytical Results
Throughout subject areas	 Lead (presumed) in: Lead-acid batteries used in emergency lighting Solder used in bell fittings for cast iron pipes and in electrical equipment 	No photo available	Expected to be present within the subject areas; not sampled	N/A
Fume Hoods (general)	Information pertaining to the operations and types of chemicals used in each fume hood was provided by PESC staff, and is attached to this document for reference. Chemicals with potential for "reactive" residues (e.g., picric acid or perchloric acid) do not appear to have been used.			
Mechanical mezzanine – Exhaust fan for fume hood 32	General dust observed on inner ducting surfaces. No particulate consistent with chemical residue/deposits observed Trace amounts of chemical deposits, if present, would not be present in significant quantities to require disposal as "hazardous waste"		N/A	N/A



Location	Hazardous Building Material Observations	Photo	Samples collected?	Analytical Results
Mechanical mezzanine – Exhaust fan for fume hood 29	General dust observed on inner ducting surfaces. No particulate consistent with chemical residue/deposits observed. Liquid staining consistent with condensation observed. Trace amounts of chemical deposits, if present, would not be present in significant quantities to require disposal as "hazardous waste"		N/A	N/A
Throughout subject areas	 The following were NOT observed pertaining to materials or equipment that may be impacted by the Project was observed: PCB-containing equipment Mould-impacted materials Mercury-containing equipment ODS-containing equipment 	N/A	N/A	N/A



Location	Hazardous Building Material Observations	Photo	Samples collected?	Analytical Results
Throughout subject areas	Silica is expected to be present in the following, which were observed in various locations throughout, and may require action during the Project:	N/A	N/A	N/A
	 Concrete floors and edging Gypsum and associated wall/ceiling finish materials Suspended ceiling tiles Asphalt roof membrane 			

CONCLUSIONS AND RECOMMENDATIONS

Based on the results of site review and associated sampling conducted as outlined above and on our understanding of the Project requirements, the following conclusions and recommendations are provided:

Asbestos

- No asbestos was detected in samples of suspected ACMs collected and analyzed as part of this assessment or as part of the previous documents reviewed
- Should a material suspected to contain asbestos fibres that has not otherwise been assessed/tested become uncovered during the Project, all work in the areas that may disturb the material should be stopped. Samples of the suspect material should be submitted for laboratory analysis to determine if asbestos fibres are present. Confirmed ACMs should be handled in accordance with the requirements of the following:
 - BC Reg. 296/97 and the BC Asbestos Guide.
 - The Federal Transportation of Dangerous Goods Regulation
 - The British Columbia Hazardous Waste Regulation (BC Reg. 63/88).

Lead

- LCPs that were identified in the subject areas through this assessment, and that may require alteration during the Project include the following:
 - Green paint on structural steel bracing and columns throughout
 - Red paint on structural steel beams throughout
 - Yellow paint on structural steel beams, bracing and columns throughout
 - Green paint on steel/aluminum exhaust manifold frame and roof flashing



- Cream paint on fume hoods throughout (potential LCP, further sampling may be required, if the fume hoods and associated paint will be destructively altered)
- Lead is also presumed to be present in:
 - Lead-acid batteries used in emergency lighting
 - Solder used in bell fittings for cast iron pipes and in electrical equipment
- If LCPs or other lead-containing equipment/materials within the subject building are to be disturbed and/or removed during the Project ensure compliance with the following:
 - The exposure protection requirements of the BC Reg. 296/97, including the provisions of the Lead Guideline
 - The transportation and disposal requirements of BC Reg. 63/88
 - The transportation requirements of the Federal Transportation of Dangerous Goods Regulation
- Corrective action or remedial work on paint applications containing any concentration of lead should be undertaken in a manner so as to avoid generating fine particulate matter or dust (i.e., avoid sanding). Airborne lead dust or fumes should not exceed the BC Reg. 296/97 eight-hour occupational exposure limit (OEL) of 0.05 mg/m³ during the removal of paints and products containing any concentration of lead. The use of personal protective equipment is recommended to reduce the potential for over-exposure to lead dust.

Ducting components with hazardous residues

- Based on a review of information provided by site staff regarding fume hood use and observation of interior conditions of fume hood ducting and exhaust systems chemical residues/deposits do not appear to be present in types, forms or amounts that would require significant special handling or disposal procedures during the Project.
- As a measure of diligence in protecting the health and safety of workers conducting removal of fume hood ducting, and due to the potential for trace hazardous residues to be present on the inside of such ducting, the following should be implemented during dismantling fume hood ducting and exhaust systems:
 - Avoid skin contact with duct interior surfaces and/or exhaust system components through the use of disposable, chemically resistant gloves (e.g. rubber or nitrile) while dismantling/handling ducting and other exhaust equipment
 - Use of N95 (at minimum) type respirators
 - Wash hands and exposed skin with soap and warm water after handling ducting, and prior to eating, drinking or smoking
 - Do not eat, drink or smoke in the work area

Other Hazardous Building Materials

- If silica-containing materials within the subject building are to be disturbed and/or removed (e.g., coring through concrete) during the Project, ensure dust control measures are employed such that airborne silica dust concentrations do not exceed the exposure limit as stipulated by BC Reg. 296/97 (cristobalite and quartz—each 0.025 mg/m³). This would include, but not be limited to, the following:
 - Providing workers with respiratory protection
 - Wetting the surface of the materials, use of water or dust suppressing agents to prevent dust emissions



- Providing workers with facilities to properly wash prior to exiting the work area

LIMITATIONS

In preparation of this report, Stantec used professional judgment based on experience. The work was conducted in accordance with generally accepted professional standards. Stantec relied on information gathered during the site investigation and laboratory analytical reports.

This report reflects the observations made within accessible and accessed areas of the subject areas that pertained to the Project only, and the results of analyses performed on the specific materials sampled during the assessment. Analytical results reflect the sampled materials at the specific sample locations.

This assessment was conducted pertaining only to the Project, and building materials expected to be disturbed by the Project. This assessment does not constitute a comprehensive hazardous materials assessment for the subject building.

This report has been prepared for the exclusive use of Public Services and Procurement Canada for the purpose of assessing general conditions within the subject areas associated with the Project. Any use that a third party makes of this report, or reliance on, or decisions to be made on it, are the responsibility of such third parties. Stantec accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.



CLOSING

If any conditions become apparent that differ significantly from our understanding of conditions as presented in this document, we request that we be notified immediately to reassess the information provided herein.

We trust that the document meets your current requirements. Should you have any questions or concerns regarding the above, please do not hesitate to contact the undersigned.

STANTEC CONSULTING LTD.

Rith Irwin

Keith Irwin Environmental Technologist Phone: 604-412-3016 Keith.Irwin@stantec.com

Rob Robinson, P.Eng. Principal Phone: 905-817-2070 Rob.Robinson@stantec.com

Sean Brigden, B.Sc., P.B.Dipl., CRSP Senior Associate Phone: 250-655-6062 Sean.Brigden@stantec.com

Attachments: Floor Plans—3 pages Suspected ACM Bulk Sample Analytical Record (EMSL)—6 pages Suspected LCP Sample Analytical Record (EMSL)—1 page Fume Hood Chemical Use Summary – 2 pages













	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	5/04/2017	Red	0.0%	100%	None Detected		
Client Sample ID:	DM-01C					Lab Sample ID:	691700798-0004
Sample Description:	MECHANICAL MEZZANIN	E - APPLIED TO F	UME HOOD 3	1 EXHAUST DUCT	ING		
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	5/04/2017	Red	0.0%	100%	None Detected		
Client Sample ID:	DM-02A					Lab Sample ID:	691700798-0005
Sample Description:	MECHANICAL MEZZANIN	E - APPLIED TO S	SUPPLY AIR D	UCTING			
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	5/04/2017	Gray	0.0%	100%	None Detected		
Client Sample ID:	DM-02B					Lab Sample ID:	691700798-0006
Sample Description:	MECHANICAL MEZZANIN	E - APPLIED TO S	SUPPLY AIR D	UCTING			
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	5/04/2017	Gray/Red	0.0%	100%	None Detected		
Client Sample ID:	DM-02C					Lab Sample ID:	691700798-0007
Sample Description:	MECHANICAL MEZZANIN	E - APPLIED TO S	SUPPLY AIR D	UCTING			
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	5/04/2017	Gray	0.0%	100%	None Detected		

Phone:	(604) 412-3004
Fax:	
Collected:	
Received:	4/27/2017
Analyzed:	5/04/2017

Lab Sample ID:

Comment

Lab Sample ID:

Comment

Lab Sample ID:

Asbestos

Asbestos

None Detected

None Detected

691700798-0001

691700798-0002

691700798-0003



4506 Dawson Street Burnaby, BC V5C 4C1 Phone/Fax: 604-757-3158 / (604) 757-4731 http://www.EMSL.com / vancouverlab@EMSL.com

Cherr Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING TEST Date Color Fibrous Non-Abbestos TEST Date Color Fibrous Non-Abbestos TEST Date Color Fibrous Non-Fibrous Abbestos Comment FIM Grav. Reduction S004-02017 Silver 0.0% 100% None Detected Comment FIM Grav. Reduction S004-02017 Silver 0.0% 100% None Detected Comment FIM Grav. Reduction S004-02017 Silver 0.0% 100% None Detected Comment FIM Grav. Reduction S004-02017 Silver 0.0% 100% None Detected Comment FIM Grav. Reduction S004-02017 Silver 0.0% 100% None Detected Comment FIM Grav. Reduction S004-02017 Silver 0.0% 100% None Detected Comment FIM Grav. Reduction S004-020 Color Fibrous Non-Fibrous Abbestos Comment FIM Grav. Reduction S004-020 Color Fibrous Non-Fibrous Abbestos Comment FIM Grav. Reduction S004-020 Color Fibrous Non-Fibrous Abbestos Comment FIM Grav. Reduction S004-020 Color Fibrous Non-Fibrous Abbestos Comment FIM Grav. Reduction S004-020 Color Fibrous Non-Fibrous Abbestos Comment FIM Grav. Reduction S004-020 Color Fibrous Non-Fibrous Abbestos Comment FIM Grav. Reduction S004-020 Color Fibrous Non-Fibrous Abbestos Comment FIM Grav. Reduction S004-020 Color Fibrous Abbestos Comment FIM Grav. Reduction S004-020 Color Fibrous Abbestos Comment Lab Sample ID: 69170078-0012 Color Fibrous Abbestos Comment FIM Grav. Reduction S004-020 Color Fibrous Abbestos Comment FIM Grav. Reduction S004-020 Color Fibrous Abbestos Comment Lab Sample ID: 69170078-0012 Color Fibrous Abbestos Comment FIM Grav. Reduction S004-020 Color Fibrous Abbestos Comment Lab Sample ID: 69170078-0012 Color Fibrous Abbestos Comment FIM Grav. Reduction S004-02 Color Fibrous Abbestos Comment FIM Grav. Reduction S004-02 Color Fibrous Abbestos Comment Lab Sample ID: 69170078-0012 Color Fibrous Abbestos Comment Lab Sample ID: 69170078-0012 Color Fibrous Abbestos Comment FIM Grav. Reduction S004-02 C		Colum	bia Regula	tion 188/2	UTT VIA EPA 6	500/R-93/116 Nie	ethod		
Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING TEST Date Color Fibrous Non-Fibrous Asbestos Commant TEST Date Color Fibrous Non-Fibrous Asbestos Commant TEST Date Color Fibrous Non-Fibrous Asbestos Commant Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Lab Sample (D: 69170078-0009 Sample Description: FID Ada Color Fibrous Non-Fibrous Asbestos Commant TEST Date Color Fibrous Non-Fibrous Asbestos Comment FILM Grav. Reduction 5004/2017 Silver 0.0% None Detected Comment Grav. Reduction 5004/2017 Silver 0.0% None Detected Comment FILM Grav. Reduction 5004/2017 Silver 0.0% None Detected Comment Grav. AppLieD To FUME HOOD EXHAUST DUCTING Lab Sample (D: 69170078-0011 Silver Color Fibrous Non-Fibrous Asbestos Comment FEIM <td>Client Sample ID:</td> <td>DM-03A</td> <td></td> <td></td> <td></td> <td></td> <td>Lab Sample ID:</td> <td>691700798-0008</td>	Client Sample ID:	DM-03A					Lab Sample ID:	691700798-0008	
TEST Date Color Floreus Non-Abbestos Comment ELM Grav. Reduction 054/2017 Silvar 0.0% None Didected Crient Sample Dis: DM 038 Lab. Sample Dis Lab. Sample Dis 691700788-0009 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Lab. Sample Dis 691700788-0009 TEST Date Color Floreus Non-Abbestos Comment FLM Grav. Reduction 5042017 Silvar 0.0% Non-Abbestos Comment Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Lab. Sample Dis 691700788-0010 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Lab. Sample Dis 691700788-0011 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Lab. Sample ID: 691700788-0011 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Lab. Sample ID: 691700788-0011 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Lab. Sample ID: 691700788-0011 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING<	Sample Description:	ROOF - APPLIED TO FUM	E HOOD EXHAU	IST DUCTING					
TEST Date Color Fibrous Non-Fibrous Aubestos Comment PLM Grav. Reduction 5064/2017 Silver 0.0% 100% None Detected Carrel Sample Description ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Lab Sample D: 691700788-6009 TEST Date Color Fibrous Non-Abbestos Asbestos Comment TEST Date Color Fibrous Non-Abbestos Asbestos Comment Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Lab Sample D: 69170798-6019 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Lab Sample D: 69170798-6011 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Lab Sample D: 69170798-6011 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Lab Sample D: 69170798-6011 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Lab Sample D: 69170798-6011 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Lab Sample D: 691700798-6011 Sampl		Analyzed		Non	-Asbestos				
PIM Grav. Reduction Stiller 0.0% 100% None Detected Cifent Sample ID: DM.03B Lab. Sample ID: Stample Operation ROGP - APPLIED TO FUME HOOD EXHAUST DUCTING Lab. Sample ID: 691700798-0009 TEST Date Color Fibrous None-Fibrous Asbestos Comment Clinet Sample ID: DM-03C Sample Operation: 604/2017 Silver 0.0% None Detected Clinet Sample ID: DM-03C Sample Operation: 604/2017 Silver 0.0% None Detected Clinet Sample ID: DM-04X Sample Operation: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Aabestos Comment FEM Grav. Reduction Date Color Fibrous Non-Abbestos Comment 691700798-0011 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Aabestos Comment Eds 691700798-0011 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Aabestos Comment 691700798-0012 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Aabestos	TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment		
Client Sample ID: DM-03B Lab Sample ID: 691700788-4009 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Asbestos Comment PLM Grav. Reduction 50442017 Silver 0.0% Non-Abbestos Color Fibrous Non-Fibrous Asbestos Comment PLM Grav. Reduction 50442017 Silver 0.0% Non-Abbestos Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Asbestos Comment TEST Date Color Fibrous Non-Fibrous Asbestos Comment FLM Grav. Reduction 5042017 Silver 0.0% Non-Abbestos Comment FLM Grav. Reduction 5042017 Silver 0.0% Non-Abbestos Comment FLM Grav. Reduction S0042017 Clear 0% Non-Abbestos Comment PLM S042017 Clear 0% Non-Abbestos Comment Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Abbestos Comment PLM Grav. Reduction 5042017	PLM Grav. Reduction	5/04/2017	Silver	0.0%	100%	None Detected			
Analyzed Non-Asbestos Comment PLM Grav. Reduction 504-2017 Give Non-Asbestos Comment PLM Grav. Reduction 504-2017 Silver 0.0% Non-Asbestos Comment PLM Grav. Reduction S04-2017 Cilear 0.5% 100% None Detected Cilear Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Asbestos Comment PLM 504-2017 Cilear 0.5% 100% None Detected Cilear Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Asbestos Comment PLM Grav. Reduction 504-2017 Cilear 0.5% 100% None Detected Cilear Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Asbestos Comment PLM Grav. Reduction 504-2017 Cilear 0.0% 100% None Detected Cilear Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Asbestos Comment PLM Grav. Reduction 504-2017 Cilear 0.0% 100% None Detected Cilear Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Asbestos Comment PLM Grav. Reduction 504-2017 Cilear 0.0% 100% None Detected Cilear Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Asbestos Comment PLM Grav. Reduction 504-2017 Cilear 0.0% 100% None Detected Cilear Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Comment PLM Grav. Reduction 504-2017 Cilear 0.0% 100% None Detected Cilear Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Comment PLM Grav. Reduction 504-2017 Cilear 0.0% 100% None Detected Cilear Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTIN	Client Sample ID:	DM-03B					Lab Sample ID:	691700798-0009	
Cline Test Analyzed Non-Abbestos Comment PLM Grav, Reduction 504/2017 Silver 0.0% 100% None Detected Cilent Sample ID: DM-93.C Lab Sample ID: 691709798-0019 Sample Description: ROOF - APPULED TO FUME HOOD EXHAUST DUCTING Abbestos Comment FEST Date Color Fibrous Non-Asbestos Comment FEM Date Color Fibrous Non-Asbestos Comment FEM Date Color Fibrous Non-Asbestos Comment FEST Date Color Fibrous Non-Asbestos Comment FEST Date Color </td <td>Sample Description:</td> <td></td> <td>Ε ΗΩΩΩ ΕΧΗΔΙΙ</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Sample Description:		Ε ΗΩΩΩ ΕΧΗΔΙΙ						
Analyzed Date Color Date Non-Asbestos Comment Comment FLM Grav. Reduction 004/017 Silver 0.0% Non-Asbestos Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Lab Sample D: 691700798-0010 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Silver 0.0% Non-Asbestos Comment Silver 0.0% None Detected Silver 0.0% None Detected Silver 0.0% None Detected Silver Silver Silver Silver None Detected Silver Silv		ROOI - AFFLIED TO TOM		ST DUCTING					
TEST Date Color Fibrous Asbestos Comment PLM Grav. Reduction 504/2017 Silver 0.0% 100% None Detected Clent Sample D DM-0C Lab Sample Description: ROOF - APPULED TO FUME HOOD EXHAUST DUCTING Lab Sample DE Sample Description: ROOF - APPULED TO FUME HOOD EXHAUST DUCTING Asbestos Comment TEST Date Color Fibrous Non-Asbestos Comment Edit Sample D: More Detected Client Sample D: DM-04A Lab Sample D: BASectos Comment Edit Sample D: Basectop Directed 691700798-0011 Sample Description: ROOF - APPULED TO FUME HOOD EXHAUST DUCTING Asbestos Comment Edit Sample D: BASectos Comment Edit Sample D: Basectop Directed Ed		Analvzed		Non	-Asbestos				
PLM Grav. Reduction 504/2017 Silver 0.0% None Detected Cifert Sample ID: DM-03C Lab Sample ID: Color Fibrous Analyzed Non-Asbestos Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Asbestos Comment PLM Grav. Reduction 504/2017 Silver 0.0% Non-Asbestos Cifert Sample ID: DM-04A Lab Sample ID: Gent Sample ID: DM-04A Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Asbestos Comment PLM 504/2017 Clear 0% 100% None Detected Cifert Sample ID: DM-04B Sold/2017 Clear 0% 100% None Detected Cifert Sample ID: DM-04B Lab Sample ID: 691700798-0012 Sold/2017 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Asbestos Comment PLM 504/2017 Clear 0.0% 100% None Detected Cifert Sample ID: DM-04C Lab Sample ID: 691700798-0013 <td>TEST</td> <td>Date</td> <td>Color</td> <td>Fibrous</td> <td>Non-Fibrous</td> <td>Asbestos</td> <td>Comment</td> <td></td>	TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment		
Citent Sample ID: DM-03C Lab Sample ID: SetT00798-0010 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Crient Sample ID: DM-04A Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Lab Sample ID: 691700798-0011 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Lab Sample ID: 691700798-0011 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Asbestos Comment PLM Sto42017 Clear 0% Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM Sto42017 Clear 0% Non-Asbestos Comment Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Lab Sample ID: 691700798-0012 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Lab Sample ID: 691700798-0012 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Lab Sample ID: 691700798-0013 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Lab Sample ID: 691700798-0013 Sample Description: ROOF - APPLIED TO FUM	PLM Grav. Reduction	5/04/2017	Silver	0.0%	100%	None Detected			
Sample Description: NOOF - APPLIED TO FUME HOOD EXHAUST DUCTING TEST Date Color Fibrous Non-Asbestos TEST Date Color Fibrous Non-Asbestos Clears Sample D. 504/2017 Silver 0.0% 100% None Detected Clears Sample D. Deto Color Fibrous Non-Asbestos Commont Clears Sample D. ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Lab Sample D. 691700798-0011 TEST Date Color Fibrous Non-Asbestos TEST Date Color Fibrous Non-Edetected Clears Sample D. DM-04B Lab Sample D. 691700798-0012 Clears Sample D. DM-04B Lab Sample D. 691700798-0012 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Lab Sample D. 691700798-0012 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Lab Sample D. 691700798-0013 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Lab Sample ID. 691700798-0013 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Lab Sample ID. 691700798-0013 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Lab Sample ID. <t< td=""><td>Client Sample ID:</td><td>DM-03C</td><td></td><td></td><td></td><td></td><td>Lab Sample ID:</td><td>691700798-0010</td></t<>	Client Sample ID:	DM-03C					Lab Sample ID:	691700798-0010	
Analyzed Non-Asbestos Comment PLM Grav. Reduction 504/2017 Silver 0.0% 100% None Detected Client Sample (D: DM-0A Lab Sample (D: 691700798-0011 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Asbestos Comment PLM 504/2017 Clear 0% 100% None Detected Client Sample (D: DM-04A Lab Sample (D: 691700798-0011 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Asbestos Comment PLM 504/2017 Clear 0% 100% None Detected Client Sample (D: DM-04B Lab Sample (D: 691700798-0012 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Asbestos Comment PLM 504/2017 Clear 0.0% Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos PLM Grav. Reduction 504/2017 Clear 0.0% None Detected Client Sample (D: DM-04C Lab Sample (D: 691700798-0013 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Asbestos Comment PLM Color Fibrous <td< td=""><td>Sample Description:</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Sample Description:								
Analyzed TEST Date Date Color Color Fibrous Fibrous Non-Fibrous Non-Fibrous Asbestos None Detected Comment PLM Grav. Reduction 504/2017 Silver 0.0% 100% None-Status Lab Sample ID: Birloor398-0011 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Lab Sample ID: Silver Comment	Comple Description.	ROOF - AFFLIED TO FUM		STDUCTING					
TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM Grav. Reduction 504/2017 Silver 0.0% 100% None Detected Client Sample ID: DM-04A Lab Sample ID: 691700798-0011 Silver Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Asbestos Comment Eds Sample ID: 691700798-0011 PLM 5004/2017 Clear 0% 100% None Detected Comment Client Sample ID: DM-04B Lab Sample ID: 691700798-0012 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Lab Sample ID: 691700798-0012 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Asbestos Comment Eds Sample ID: 691700798-0012 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Asbestos Comment Eds Sample ID: 691700798-0013 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Asbestos Comment Eds Sample ID: 691700798-0014 Client Sample ID: Maltyzed Non-		Analvzed		Non	-Asbestos				
PLM Grav. Reduction 504/2017 Silver 0.0% 100% None Detected Client Sample ID: DM-04A Lab Sample ID: 691700798-0011 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 504/2017 Clear 0% 100% None Detected	TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment		
Client Sample ID: DM-04A Lab Sample ID: 691700798-0011 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Crient Sample ID: DM-04B 5/04/2017 Clear 0% 100% None Detected Crient Sample ID: DM-04B Lab Sample ID: 691700798-0012 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM Grav. Reduction 5/04/2017 Clear 0.0% 100% None Detected Client Sample ID: DM-04C Lab Sample ID: 691700798-0013 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM Grav. Reduction 5/04/2017 Clear 0.0% 100% None Detected Client Sample ID: RS-01A Lab Sample ID: 691700798-0013 Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Lab Sample ID: 691700798-0014	PLM Grav. Reduction	5/04/2017	Silver	0.0%	100%	None Detected			
Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING TEST Date Color Fibrous Non-Asbestos Client Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Analyzed Non-Asbestos TEST Date Color FIST Date Color<	Client Sample ID [.]	DM-04A					Lab Sample ID:	691700798-0011	
Analyzed Non-Asbestos Comment TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 504/2017 Clear 0% 100% None Detected Client Sample ID: DM-04B Lab Sample ID: 691700798-0012 East East 691700798-0012 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Asbestos Comment East <	Sample Description:								
Analyzed Non-Asbestos Comment PLM 5/04/2017 Clear 0% 100% None Detected Cilent Sample ID: DM-04B Color Fibrous Non-Asbestos Lab Sample ID: 691700798-0012 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Lab Sample ID: Comment East TEST Date Color Fibrous Non-Asbestos Comment East 691700798-0012 TEST Date Color Fibrous Non-Asbestos Comment East 691700798-0013 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Asbestos Comment East 691700798-0013 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Lab Sample ID: 691700798-0014 TEST Date Color Fibrous Non-Fibrous Asbestos Comment TEST Date Color Fibrous Non-Fibrous Asbestos Comment Grav. Reduction ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Lab Sample ID	oumple Description.	ROOF - AFFLIED TO FUM		STDUCTING					
TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 5/04/2017 Clear 0% 100% None Detected		Analyzed		Non	-Asbestos				
PLM 5/04/2017 Clear 0% 100% None Detected Client Sample ID: DM-04B Lab Sample ID: 691700798-0012 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Asbestos Comment TEST Date Color Fibrous Non-Asbestos Comment PLM Grav. Reduction 5/04/2017 Clear 0.0% 100% None Detected Client Sample ID: DM-04C Lab Sample ID: G91700798-0013 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Lab Sample ID: 691700798-0013 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Lab Sample ID: 691700798-0013 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Analyzed Non-Asbestos Comment PLM Grav. Reduction 5/04/2017 Clear 0.0% 100% None Detected Client Sample ID: 691700798-0014 Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Asbestos Comment FEST Date Color Fibrous Non-Fibrous Asbestos Comment <t< td=""><td>TEST</td><td>Date</td><td>Color</td><td>Fibrous</td><td>Non-Fibrous</td><td>Asbestos</td><td>Comment</td><td></td></t<>	TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment		
Client Sample ID: DM-04B Lab Sample ID: 691700798-0012 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Analyzed Non-Asbestos TEST Date Color Fibrous Asbestos Comment PLM Grav. Reduction 5/04/2017 Clear 0.0% 100% None Detected Client Sample ID: DM-04C Lab Sample ID: 691700798-0013 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Lab Sample ID: 691700798-0013 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Asbestos Comment PLM Grav. Reduction 5/04/2017 Clear 0.0% 100% YEST Date Color Fibrous Asbestos Comment PLM Grav. Reduction 5/04/2017 Clear 0.0% 100% None Detected Client Sample ID: RS-01A Lab Sample ID: 691700798-0014 Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Lab Sample ID: 691700798-0014 Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Asbestos Comment PLM 5/04/2017 Gray 0% 100% None Detected Client Sample ID: RS-	PLM	5/04/2017	Clear	0%	100%	None Detected			
Control of C	Client Sample ID:	DM-04B					I ab Sample ID:	691700798-0012	
Sumple Description: ROOP - APPLIED TO FOME HOOD EXHAUST DUCTING TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM Grav. Reduction 5/04/2017 Clear 0.0% 100% Non-Asbestos Client Sample ID: DM-04C Lab Sample ID: 691700798-0013 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Analyzed Non-Asbestos TEST Date Color FIbrous Non-Fibrous Asbestos Comment PLM Grav. Reduction 5/04/2017 Clear 0.0% Non-Asbestos TEST Date Color FIbrous Non-Fibrous Asbestos Comment TEST Date Color FIbrous Non-Fibrous Asbestos Comment PLM 5/04/2017	Sample Description:								
Analyzed TESTNon-Asbestos DateAsbestosCommentPLM Grav. Reduction5/04/2017Clear0.0%100%None DetectedClient Sample ID:DM-04CLab Sample ID:691700798-0013Sample Description:ROOF - APPLIED TO FUME HOOD EXHAUST DUCTINGLab Sample ID:691700798-0013TESTDateColorFibrousNon-FibrousAsbestosCommentPLM Grav. Reduction5/04/2017Clear0.0%100%None DetectedClient Sample ID:RS-01AColorFibrousNon-FibrousAsbestosCommentPLM Grav. Reduction5/04/2017Clear0.0%100%None DetectedClient Sample ID:RS-01AROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTINGLab Sample ID:691700798-0014Sample Description:ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTINGLab Sample ID:691700798-0014FESTDateColorFibrousNon-FibrousAsbestosCommentPLM5/04/2017Gray0%100%None DetectedImple:Client Sample ID:RS-01BLab Sample ID:691700798-0015Sample ID:691700798-0015Sample Description:ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTINGLab Sample ID:691700798-0015Sample Description:ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTINGLab Sample ID:691700798-0015Sample Description:ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTINGLab Sample ID:691700798-0015	Sample Description.	ROOF - APPLIED TO FUM		STDUCTING					
TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM Grav. Reduction 5/04/2017 Clear 0.0% 100% None Detected Lab Sample ID: 691700798-0013 Client Sample ID: DM-04C Lab Sample ID: Color Fibrous Non-Asbestos Comment Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Asbestos Comment Comment PLM Grav. Reduction 5/04/2017 Clear 0.0% Non-Asbestos Comment TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM Grav. Reduction 5/04/2017 Clear 0.0% 100% None Detected Client Sample ID: RS-01A Lab Sample ID: 691700798-0014 Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Asbestos Comment PLM 5/04/2017 Gray 0% 100% None Detected Client Sample ID: RS-01B Lab Sample ID: 691700798-0015 Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Lab Sample ID:		Analyzed		Non	-Asbestos				
PLM Grav. Reduction 5/04/2017 Clear 0.0% 100% None Detected Client Sample ID: DM-04C Lab Sample ID: 691700798-0013 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM Grav. Reduction 5/04/2017 Clear 0.0% 100% None Detected Client Sample ID: RS-01A Lab Sample ID: Gent Policies Gent Policies Gent Policies Gent Policies Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Analyzed Non-Asbestos Comment PLM 5/04/2017 Gray 0% 100% None Detected Client Sample ID: RS-01B Lab Sample ID: Gent Policies Gent Policies PLM 5/04/2017 Gray 0% 100% None Detected Client Sample ID: RS-01B Lab Sample ID: Gent Policies Gent Policies Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Lab Sample ID: Gent Policies	TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment		
Client Sample ID: DM-04C Lab Sample ID: 691700798-0013 Sample Description: ROOF - APPLIED TO FUME HOOD EXHAUST DUCTING Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM Grav. Reduction 5/04/2017 Clear 0.0% 100% None Detected Client Sample ID: RS-01A Lab Sample ID: 691700798-0014 Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Lab Sample ID: 691700798-0014 Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Lab Sample ID: 691700798-0014 Client Sample ID: RS-01B Lab Sample ID: 691700798-0015 Client Sample ID: RS-01B Lab Sample ID: 691700798-0015 Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Lab Sample ID: 691700798-0015 Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Lab Sample ID: 691700798-0015 Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Lab Sample ID: 691700798-0015 Sample Description: ROOF - A	PLM Grav. Reduction	5/04/2017	Clear	0.0%	100%	None Detected			
End of the completies: End of the completies: End of the completies: <th col<="" column="" td=""><td>Client Sample ID:</td><td>DM-04C</td><td></td><td></td><td></td><td></td><td>Lab Sample ID:</td><td>691700798-0013</td></th>	<td>Client Sample ID:</td> <td>DM-04C</td> <td></td> <td></td> <td></td> <td></td> <td>Lab Sample ID:</td> <td>691700798-0013</td>	Client Sample ID:	DM-04C					Lab Sample ID:	691700798-0013
Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM Grav. Reduction 5/04/2017 Clear 0.0% 100% None Detected Client Sample ID: RS-01A Lab Sample ID: 691700798-0014 Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Lab Sample ID: 691700798-0014 Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Analyzed Non-Asbestos Comment PLM 5/04/2017 Gray 0% 100% None Detected Client Sample ID: RS-01B Lab Sample ID: 691700798-0015 Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Lab Sample ID: 691700798-0015 Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Lab Sample ID: 691700798-0015 Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Lab Sample ID: 691700798-0015 Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Lab Sample ID: 691700798-0015 Sample	Sample Description:								
Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM Grav. Reduction 5/04/2017 Clear 0.0% 100% None Detected Client Sample ID: RS-01A RS-01A Lab Sample ID: 691700798-0014 Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Lab Sample ID: 691700798-0014 TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 5/04/2017 Gray 0% 100% None Detected Lab Sample ID: PLM 5/04/2017 Gray 0% 100% None Detected Color Fibrous Non-Fibrous Asbestos Comment PLM S/04/2017 Gray 0% 100% None Detected Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Lab Sample ID: 691700798-0015 Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Lab Sample ID: 691700798-0015 Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Lab Sample ID: 691700798-0015 Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST	Sample Description.	ROOF - APPLIED TO FUM		STDUCTING					
TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM Grav. Reduction 5/04/2017 Clear 0.0% 100% None Detected Client Sample ID: RS-01A Lab Sample ID: 691700798-0014 Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 5/04/2017 Gray 0% 100% None Detected Lab Sample ID: 691700798-0014 Client Sample ID: RS-01B Lab Sample ID: 691700798-0015 Sample ID: 691700798-0015 Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Lab Sample ID: 691700798-0015 Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Lab Sample ID: 691700798-0015 Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Lab Sample ID: 691700798-0015 Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Lab Sample ID: 691700798-0015 PLM Date Co		Analyzed		Non	-Asbestos				
PLM Grav. Reduction 5/04/2017 Clear 0.0% 100% None Detected Client Sample ID: RS-01A Lab Sample ID: 691700798-0014 Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Non-Asbestos Comment TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 5/04/2017 Gray 0% 100% None Detected Lab Sample ID: 691700798-0014 Client Sample ID: RS-01B Kabestos Comment Color Fibrous Non-Fibrous Asbestos Comment Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Lab Sample ID: 691700798-0015 Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Lab Sample ID: 691700798-0015 Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Lab Sample ID: 691700798-0015 Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Non-Asbestos Comment PLM 5/04/2017 Gray 0% Non-Fibrous Asbestos Comment PLM<	TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment		
Client Sample ID: RS-01A Lab Sample ID: 691700798-0014 Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 5/04/2017 Gray 0% 100% None Detected Client Sample ID: RS-01B Lab Sample ID: 691700798-0015 Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Lab Sample ID: 691700798-0015 Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Lab Sample ID: 691700798-0015 Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Lab Sample ID: 691700798-0015 Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Non-Asbestos Comment FEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 5/04/2017 Gray 0% 100% None Detected	PLM Grav. Reduction	5/04/2017	Clear	0.0%	100%	None Detected			
<th c<="" column="" contro="" control="" td=""><td>Client Sample ID:</td><td>RS-01A</td><td></td><td></td><td></td><td></td><td>Lab Sample ID:</td><td>691700798-0014</td></th>	<td>Client Sample ID:</td> <td>RS-01A</td> <td></td> <td></td> <td></td> <td></td> <td>Lab Sample ID:</td> <td>691700798-0014</td>	Client Sample ID:	RS-01A					Lab Sample ID:	691700798-0014
Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos PLM 5/04/2017 Gray 0% 100% None Detected Client Sample ID: RS-01B Lab Sample ID: 691700798-0015 Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Lab Sample ID: 691700798-0015 TEST Date Color Fibrous Non-Asbestos PLM 5/04/2017 Gray 0% 100%	Sample Description:								
Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 5/04/2017 Gray 0% 100% None Detected Image: Color State Sta	Sample Description.	ROOF - APPLIED TO THE	DASE OF FUME		JST DUCTING				
TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 5/04/2017 Gray 0% 100% None Detected Client Sample ID: RS-01B Lab Sample ID: 691700798-0015 Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Lab Sample ID: 691700798-0015 TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 5/04/2017 Gray 0% 100% None Detected		Analyzed		Non	-Ashestas				
PLM 5/04/2017 Gray 0% 100% None Detected Client Sample ID: RS-01B Lab Sample ID: 691700798-0015 Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Mon-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 5/04/2017 Gray 0% 100% None Detected	TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment		
Client Sample ID: RS-01B Lab Sample ID: 691700798-0015 Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos PLM 5/04/2017 Gray 0% 100% None Detected	PLM	5/04/2017	Gray	0%	100%	None Detected			
Sample Description: ROOF - APPLIED TO THE BASE OF FUME HOOD EXHAUST DUCTING Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos PLM 5/04/2017 Gray 0% 100% None Detected	Client Sample ID:	RS-01B	·····				Lab Sample ID.	691700798-0015	
Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos PLM 5/04/2017 Gray 0% 100% None Detected	Sample Description						Las campie iD.		
Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos PLM 5/04/2017 Gray 0% 100% None Detected	Sample Description:	ROUF - APPLIED TO THE	BASE OF FUME	HOOD EXHAL	IST DUCTING				
TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 5/04/2017 Gray 0% 100% None Detected Image: Comment		Analyzod		Non	-Ashestos				
PLM 5/04/2017 Gray 0% 100% None Detected	TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment		
	PLM	5/04/2017	Grav	0%	100%	None Detected			



4506 Dawson Street Burnaby, BC V5C 4C1 Phone/Fax: 604-757-3158 / (604) 757-4731 http://www.EMSL.com / vancouverlab@EMSL.com

	00141	iona noganat					
Client Sample ID:	RS-01C					Lab Sample ID:	691700798-0016
Sample Description:	ROOF - APPLIED TO THE	BASE OF FUME I	HOOD EXHAU	ST DUCTING			
	Analyzed		Non	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	5/04/2017	Gray/Black	0.0%	100%	None Detected		
Client Sample ID:	FS-01A					Lab Sample ID:	691700798-0017
Sample Description:	MECHANICAL MEZZANIN EXHAUST DUCTING	NE - APPLIED TO V	VALL PENETR	ATION FOR FUME	HOOD 30		
	Analyzed		Non	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	5/04/2017	Gray	0.0%	100%	None Detected		
Client Sample ID:	FS-01B					Lab Sample ID:	691700798-0018
Sample Description:	MECHANICAL MEZZANIN EXHAUST DUCTING	NE - APPLIED TO V	VALL PENETR	ATION FOR FUME	HOOD 30		
	Analyzed		Non	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	5/04/2017	Gray	0.0%	100%	None Detected		
Client Sample ID:	FS-01C					Lab Sample ID:	691700798-0019
Sample Description:	MECHANICAL MEZZANIN EXHAUST DUCTING	NE - APPLIED TO V	VALL PENETR	ATION FOR FUME	HOOD 30		
	Analyzed		Non	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	5/04/2017	Gray	0.0%	100%	None Detected		
Client Sample ID:	FS-02A					Lab Sample ID:	691700798-0020
Sample Description:	MECHANICAL MEZZANIN EXHAUST DUCTING	NE - APPLIED TO F	LOOR PENET	RATION FOR FUM	IE HOOD 27		
	Analyzed		Non	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	5/04/2017	Gray	0.0%	100%	None Detected		
Client Sample ID:	FS-02B					Lab Sample ID:	691700798-0021
Sample Description:	MECHANICAL MEZZANIN EXHAUST DUCTING	NE - APPLIED TO F	LOOR PENET	RATION FOR FUM	IE HOOD 27		
	Analyzed		Non	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	5/04/2017	Gray	0.0%	100%	None Detected		
Client Sample ID:	FS-02C					Lab Sample ID:	691700798-0022
Sample Description:	MECHANICAL MEZZANIN EXHAUST DUCTING	NE - APPLIED TO F	LOOR PENET	RATION FOR FUM	IE HOOD 27		
	Analyzed		Non	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	5/04/2017	Gray	0.0%	100%	None Detected		
Client Sample ID:	FS-03A					Lab Sample ID:	691700798-0023
Sample Description:	MAIN ELECTRICAL ROOI SYSTEM PIPING	M - APPLIED TO W	ALL PENETR	ATION FOR SPRIN	KLER	P	
	Analyzed		Non	Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	5/04/2017	Red	0.0%	100%	None Detected		



4506 Dawson Street Burnaby, BC V5C 4C1 Phone/Fax: 604-757-3158 / (604) 757-4731 http://www.EMSL.com / vancouverlab@EMSL.com

Client Sample ID:	FS-03B					Lab Sample ID:	691700798-0024
Sample Description:	MAIN ELECTRICAL ROOM SYSTEM PIPING	- APPLIED TO W	ALL PENETR	ATION FOR SPRIN	KLER		
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	5/04/2017	Red	0%	100%	None Detected		
Client Sample ID:	ES-03C					Lab Sample ID:	691700798-0025
Sample Description:	MAIN ELECTRICAL ROOM SYSTEM PIPING	- APPLIED TO W	/ALL PENETR/	ATION FOR SPRINI	KLER		
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	5/04/2017	Red	0%	100%	None Detected		
Client Sample ID:	FS-04A					l ab Sample ID:	691700798-0026
Sample Description:	MAIN ELECTRICAL ROOM	- APPLIED TO W	ALL PENETR	ATION FOR ELECT	RICAL		
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	5/04/2017	Orange	0.0%	100%	None Detected		
Client Sample ID:	ES-04B					Lab Sample ID:	691700798-0027
Sample Description:	MAIN ELECTRICAL ROOM	- APPLIED TO W	ALL PENETR	ATION FOR ELECT	RICAL		
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	5/04/2017	Orange	0.0%	100%	None Detected		
Client Sample ID:	FS-04C					Lab Sample ID:	691700798-0028
Client Sample ID: Sample Description:	FS-04C MAIN ELECTRICAL ROOM CONDUIT	- APPLIED TO W	/ALL PENETR/	ATION FOR ELECT	RICAL	Lab Sample ID:	691700798-0028
Client Sample ID: Sample Description:	FS-04C MAIN ELECTRICAL ROOM CONDUIT Analyzed	- APPLIED TO W	/ALL PENETR/ Non	ATION FOR ELECT	RICAL	Lab Sample ID:	691700798-0028
Client Sample ID: Sample Description: TEST	FS-04C MAIN ELECTRICAL ROOM CONDUIT Analyzed Date	- APPLIED TO W	/ALL PENETR, Non Fibrous	ATION FOR ELECT -Asbestos Non-Fibrous	RICAL Asbestos	Lab Sample ID:	691700798-0028
Client Sample ID: Sample Description: TEST PLM Grav. Reduction	FS-04C MAIN ELECTRICAL ROOM CONDUIT Analyzed Date 5/04/2017	- APPLIED TO W Color Orange	/ALL PENETR/ Non Fibrous 0.0%	ATION FOR ELECT -Asbestos Non-Fibrous 100%	RICAL Asbestos None Detected	Lab Sample ID: Comment	691700798-0028
Client Sample ID: Sample Description: TEST PLM Grav. Reduction	FS-04C MAIN ELECTRICAL ROOM CONDUIT Analyzed Date 5/04/2017 EM-01A	- APPLIED TO W Color Orange	/ALL PENETR/ Non Fibrous 0.0%	ATION FOR ELECT -Asbestos Non-Fibrous 100%	RICAL Asbestos None Detected	Lab Sample ID: Comment	691700798-0028
Client Sample ID: Sample Description: TEST PLM Grav. Reduction Client Sample ID: Sample Description:	FS-04C MAIN ELECTRICAL ROOM CONDUIT Analyzed Date 5/04/2017 FM-01A ROOF - APPLIED TO SEAM MANIFOLD	- APPLIED TO W Color Orange IS OF ROOF FL/	ALL PENETR Non Fibrous 0.0%	ATION FOR ELECT -Asbestos Non-Fibrous 100%	RICAL Asbestos None Detected	Lab Sample ID: Comment Lab Sample ID:	691700798-0028 691700798-0029
Client Sample ID: Sample Description: TEST PLM Grav. Reduction Client Sample ID: Sample Description:	FS-04C MAIN ELECTRICAL ROOM CONDUIT Analyzed Date 5/04/2017 FM-01A ROOF - APPLIED TO SEAM MANIFOLD Analyzed	- APPLIED TO W Color Orange IS OF ROOF FL/	ALL PENETR Non Fibrous 0.0% ASHING AROL Non	ATION FOR ELECT -Asbestos Non-Fibrous 100% IND FUME HOOD E -Asbestos	RICAL Asbestos None Detected	Lab Sample ID: Comment Lab Sample ID:	691700798-0028 691700798-0029
Client Sample ID: Sample Description: TEST PLM Grav. Reduction Client Sample ID: Sample Description: TEST	FS-04C MAIN ELECTRICAL ROOM CONDUIT Analyzed Date 5/04/2017 FM-01A ROOF - APPLIED TO SEAM MANIFOLD Analyzed Date	- APPLIED TO W Color Orange IS OF ROOF FL/ Color	/ALL PENETR/ Non Fibrous 0.0% ASHING AROU Non Fibrous	ATION FOR ELECT Asbestos Non-Fibrous 100% ND FUME HOOD E Asbestos Non-Fibrous	RICAL Asbestos None Detected EXHAUST Asbestos	Lab Sample ID: Comment Lab Sample ID: Comment	691700798-0028 691700798-0029
Client Sample ID: Sample Description: TEST PLM Grav. Reduction Client Sample ID: Sample Description: TEST PLM Grav. Reduction	FS-04C MAIN ELECTRICAL ROOM CONDUIT Analyzed Date 5/04/2017 FM-01A ROOF - APPLIED TO SEAN MANIFOLD Analyzed Date 5/04/2017	- APPLIED TO W Color Orange IS OF ROOF FL/ Color Gray	/ALL PENETR/ Non Fibrous 0.0% ASHING AROL Non Fibrous 0.0%	ATION FOR ELECT -Asbestos Non-Fibrous 100% IND FUME HOOD E -Asbestos Non-Fibrous 100%	RICAL Asbestos None Detected EXHAUST Asbestos None Detected	Lab Sample ID: Comment Lab Sample ID: Comment	691700798-0028 691700798-0029
Client Sample ID: Sample Description: TEST PLM Grav. Reduction Client Sample ID: Sample Description: TEST PLM Grav. Reduction Client Sample ID:	FS-04C MAIN ELECTRICAL ROOM CONDUIT Analyzed Date 5/04/2017 FM-01A ROOF - APPLIED TO SEAM MANIFOLD Analyzed Date 5/04/2017 FM-01B	- APPLIED TO W Color Orange IS OF ROOF FL/ Color Gray	/ALL PENETR/ Non Fibrous 0.0% ASHING AROL ASHING AROL Non Fibrous 0.0%	ATION FOR ELECT -Asbestos Non-Fibrous 100% IND FUME HOOD E -Asbestos Non-Fibrous 100%	RICAL Asbestos None Detected EXHAUST Asbestos None Detected	Lab Sample ID: Comment Lab Sample ID: Comment Lab Sample ID:	691700798-0028 691700798-0029 691700798-0029
Client Sample ID: Sample Description: TEST PLM Grav. Reduction Client Sample ID: Sample Description: TEST PLM Grav. Reduction Client Sample ID: Sample Description:	FS-04C MAIN ELECTRICAL ROOM CONDUIT Analyzed Date 5/04/2017 FM-01A ROOF - APPLIED TO SEAM MANIFOLD Date 5/04/2017 FM-01B ROOF - APPLIED TO SEAM MANIFOLD	- APPLIED TO W Color Orange IS OF ROOF FL/ Color Gray IS OF ROOF FL/	ALL PENETR Non Fibrous 0.0% ASHING AROL Non Fibrous 0.0%	ATION FOR ELECT -Asbestos Non-Fibrous 100% IND FUME HOOD E -Asbestos Non-Fibrous 100% IND FUME HOOD E	RICAL Asbestos None Detected EXHAUST Asbestos None Detected EXHAUST	Lab Sample ID: Comment Lab Sample ID: Comment Lab Sample ID:	691700798-0028 691700798-0029 691700798-0030
Client Sample ID: Sample Description: TEST PLM Grav. Reduction Client Sample ID: Sample Description: TEST PLM Grav. Reduction Client Sample ID: Sample Description:	FS-04C MAIN ELECTRICAL ROOM CONDUIT Analyzed Date 5/04/2017 FM-01A ROOF - APPLIED TO SEAM MANIFOLD Date 5/04/2017 FM-01B ROOF - APPLIED TO SEAM MANIFOLD	- APPLIED TO W Color Orange IS OF ROOF FL/ Color Gray IS OF ROOF FL/	ALL PENETR Non Fibrous 0.0% ASHING AROL Non ASHING AROL Non	ATION FOR ELECT -Asbestos Non-Fibrous 100% IND FUME HOOD E -Asbestos Non-Fibrous 100% IND FUME HOOD E -Asbestos	RICAL Asbestos None Detected EXHAUST Asbestos None Detected EXHAUST	Lab Sample ID: Comment Lab Sample ID: Comment Lab Sample ID:	691700798-0028 691700798-0029 691700798-0030
Client Sample ID: Sample Description: TEST PLM Grav. Reduction Client Sample ID: Sample Description: TEST PLM Grav. Reduction Client Sample ID: Sample Description:	FS-04C MAIN ELECTRICAL ROOM CONDUIT Analyzed Date 5/04/2017 FM-01A ROOF - APPLIED TO SEAM MANIFOLD CANALYZED FM-01B ROOF - APPLIED TO SEAM MANIFOLD FM-01B ROOF - APPLIED TO SEAM MANIFOLD	- APPLIED TO W Color Orange IS OF ROOF FL/ Color IS OF ROOF FL/ Color	ALL PENETR Non Fibrous 0.0% ASHING AROL Non Fibrous ASHING AROL Non Fibrous	ATION FOR ELECT -Asbestos Non-Fibrous IND FUME HOOD E -Asbestos Non-Fibrous IND FUME HOOD E -Asbestos Non-Fibrous	RICAL Asbestos None Detected EXHAUST Asbestos None Detected EXHAUST EXHAUST Asbestos	Lab Sample ID: Comment Lab Sample ID: Comment Lab Sample ID:	691700798-0028 691700798-0029 691700798-0030
Client Sample ID: Sample Description: TEST PLM Grav. Reduction Client Sample ID: Sample Description: TEST PLM Grav. Reduction Client Sample ID: Sample Description: TEST PLM Grav. Reduction	FS-04C MAIN ELECTRICAL ROOM CONDUIT Analyzed Date 5/04/2017 FM-01A ROOF - APPLIED TO SEAM MANIFOLD CANALYZED FM-01B ROOF - APPLIED TO SEAM MANIFOLD FM-01B ROOF - APPLIED TO SEAM MANIFOLD CONSTRUCT FM-01B	- APPLIED TO W Color Orange IS OF ROOF FL/ Color Gray IS OF ROOF FL/ Color Gray	ALL PENETR Non Fibrous 0.0% ASHING AROL Non Fibrous 0.0% ASHING AROL Non Fibrous 0.0%	ATION FOR ELECT -Asbestos Non-Fibrous IND FUME HOOD E -Asbestos Non-Fibrous IND FUME HOOD E -Asbestos Non-Fibrous 100%	RICAL Asbestos None Detected EXHAUST Asbestos None Detected EXHAUST Asbestos None Detected	Lab Sample ID: Comment Lab Sample ID: Comment Lab Sample ID: Comment	691700798-0028 691700798-0029 691700798-0030
Client Sample ID: Sample Description: TEST PLM Grav. Reduction Client Sample ID: Sample Description: TEST PLM Grav. Reduction Client Sample ID: Sample Description: TEST PLM Grav. Reduction	FS-04C MAIN ELECTRICAL ROOM CONDUIT Analyzed Date 5/04/2017 FM-01A ROOF - APPLIED TO SEAM MANIFOLD Date 5/04/2017 FM-01B ROOF - APPLIED TO SEAM MANIFOLD Analyzed Date Date 5/04/2017	- APPLIED TO W Color Orange IS OF ROOF FL/ Color Gray IS OF ROOF FL/ Color Gray	ALL PENETR Non Fibrous 0.0% ASHING AROL Non Fibrous 0.0% ASHING AROL Non Fibrous 0.0%	ATION FOR ELECT -Asbestos Non-Fibrous 100% IND FUME HOOD E -Asbestos Non-Fibrous IND FUME HOOD E -Asbestos Non-Fibrous 100%	RICAL Asbestos None Detected EXHAUST EXHAUST EXHAUST EXHAUST EXHAUST Asbestos None Detected	Lab Sample ID: Comment Lab Sample ID: Comment Lab Sample ID: Comment	691700798-0028 691700798-0029 691700798-0030 691700798-0031
Client Sample ID: Sample Description: TEST PLM Grav. Reduction Client Sample ID: Sample Description: TEST PLM Grav. Reduction Client Sample ID: Sample Description: TEST PLM Grav. Reduction Client Sample ID: Sample Description:	FS-04C MAIN ELECTRICAL ROOM CONDUIT Analyzed Date 5/04/2017 FM-01A ROOF - APPLIED TO SEAM MANIFOLD Analyzed Date FM-01B ROOF - APPLIED TO SEAM MANIFOLD Analyzed Date 5/04/2017 FM-01C FM-01C ROOF - APPLIED TO SEAM MANIFOLD	- APPLIED TO W Color Orange IS OF ROOF FL/ Color Gray IS OF ROOF FL/ Color Gray IS OF ROOF FL/	ALL PENETR Non Fibrous 0.0% ASHING AROL Non Fibrous 0.0% ASHING AROL 0.0%	ATION FOR ELECT -Asbestos Non-Fibrous IND FUME HOOD E -Asbestos Non-Fibrous IND FUME HOOD E -Asbestos Non-Fibrous 100% IND FUME HOOD E -Asbestos Non-Fibrous 100% IND FUME HOOD E	RICAL Asbestos None Detected XHAUST Asbestos None Detected XHAUST Asbestos None Detected XHAUST Asbestos None Detected XHAUST	Lab Sample ID: Comment Lab Sample ID: Comment Lab Sample ID: Comment Lab Sample ID:	691700798-0028 691700798-0029 691700798-0030 691700798-0031
Client Sample ID: Sample Description: TEST PLM Grav. Reduction Client Sample ID: Sample Description: TEST PLM Grav. Reduction Client Sample ID: Sample Description: TEST PLM Grav. Reduction Client Sample ID: Sample Description:	FS-04C MAIN ELECTRICAL ROOM CONDUIT Analyzed Date 5/04/2017 FM-01A ROOF - APPLIED TO SEAM MANIFOLD COF - APPLIED TO SEAM MANIFOLD FM-01B ROOF - APPLIED TO SEAM MANIFOLD Date Date COF - APPLIED TO SEAM MANIFOLD FM-01C FM-01C FM-01C FM-01C ROOF - APPLIED TO SEAM MANIFOLD	- APPLIED TO W Color Orange IS OF ROOF FL/ Color Gray IS OF ROOF FL/ Color Gray IS OF ROOF FL/	ALL PENETR Non Fibrous 0.0% ASHING AROL 0.0% ASHING AROL Non Fibrous 0.0% ASHING AROL Non	ATION FOR ELECT -Asbestos Non-Fibrous -ND FUME HOOD E -Asbestos Non-Fibrous -ND FUME HOOD E -Asbestos Non-Fibrous 100%	RICAL Asbestos None Detected EXHAUST Asbestos None Detected EXHAUST Asbestos None Detected EXHAUST EXHAUST	Lab Sample ID: Comment Lab Sample ID: Comment Lab Sample ID: Comment Lab Sample ID:	691700798-0028 691700798-0029 691700798-0030 691700798-0031
Client Sample ID: Sample Description: TEST PLM Grav. Reduction Client Sample ID: Sample Description: Client Sample ID: Sample Description: TEST PLM Grav. Reduction Client Sample ID: Sample Description:	FS-04C MAIN ELECTRICAL ROOM CONDUIT Analyzed Date 5/04/2017 FM-01A ROOF - APPLIED TO SEAM MANIFOLD Date C5/04/2017 FM-01B ROOF - APPLIED TO SEAM MANIFOLD C Analyzed Date C C C C C C C C C C C C C C C C C C C	- APPLIED TO W Color Orange IS OF ROOF FL/ Color Gray IS OF ROOF FL/ Color Gray IS OF ROOF FL/ Color	ALL PENETR Non Fibrous 0.0% ASHING AROL 0.0% ASHING AROL Non Fibrous 0.0% ASHING AROL Non Fibrous	ATION FOR ELECT -Asbestos Non-Fibrous IND FUME HOOD E -Asbestos Non-Fibrous IND FUME HOOD E -Asbestos Non-Fibrous IND FUME HOOD E -Asbestos Non-Fibrous NON FUME HOOD E	RICAL Asbestos None Detected XHAUST Asbestos None Detected XHAUST Asbestos None Detected XHAUST Asbestos None Detected XHAUST Asbestos	Lab Sample ID: Comment Lab Sample ID: Comment Lab Sample ID: Comment Lab Sample ID:	691700798-0028 691700798-0029 691700798-0030 691700798-0031



4506 Dawson Street Burnaby, BC V5C 4C1 Phone/Fax: 604-757-3158 / (604) 757-4731 http://www.EMSL.com / vancouverlab@EMSL.com

	Column	na Regulat	1011 100/2		500/R-35/110 We	liiu	
Client Sample ID:	CFS-01A					Lab Sample ID:	691700798-0032
Sample Description:	MECHANNICAL MEZZANIN	E - APPLIED TO	THE FLOOR				
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	5/04/2017	Gray	0.0%	100%	None Detected		
Client Sample ID:	CES-01B					Lab Sample ID:	691700798-0033
Sample Description:	MECHANNICAL MEZZANIN	E - APPLIED TO	THE FLOOR				
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	5/04/2017	Gray	0.0%	100%	None Detected		
Client Sample ID:	CFS-01C					Lab Sample ID:	691700798-0034
Sample Description:	MECHANNICAL MEZZANIN	E - APPLIED TO	THE FLOOR				
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	5/04/2017	Blue/Beige	0%	100%	None Detected		
Client Sample ID:	DJC-01A					Lab Sample ID:	691700798-0035
Sample Description:	MECHANICAL MEZZANINE						
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	5/04/2017	White	0%	100%	None Detected		
Client Sample ID:	DJC-01B					Lab Sample ID:	691700798-0036
Sample Description:	MECHANICAI MEZZANINE						
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	5/04/2017	White	0%	100%	None Detected		
Client Sample ID:	DJC-01C					Lab Sample ID:	691700798-0037
Sample Description:	MECHANICAL MEZZANINE						
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	5/04/2017	White	0%	100%	None Detected		
Client Sample ID:	DJC-01D					Lab Sample ID:	691700798-0038
Sample Description:	MAIN FLOOR - FIELD LAB	B115 ABOVE TH	E SUSPENDE	D CEILING			
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	5/04/2017	White	0%	100%	None Detected		
Client Sample ID:	DJC-01E					Lab Sample ID:	691700798-0039
Sample Description:	MAIN FLOOR - CORRIDOR	B101 ABOVE TH	HE SUSPEND	ED CEILING		-	
	Analvzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	5/04/2017	White	0%	100%	None Detected		



4506 Dawson Street Burnaby, BC V5C 4C1 Phone/Fax: 604-757-3158 / (604) 757-4731 http://www.EMSL.com / vancouverlab@EMSL.com

Test Report: Asbestos Analysis in Bulk Material for Occupational Health and Safety British Columbia Regulation 188/2011 via EPA 600/R-93/116 Method

		<u> </u>					
Client Sample ID:	RM-01A					Lab Sample ID:	691700798-0040
Sample Description:	ROOF - AROUND FUME H						
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	5/04/2017	Black	0.0%	100%	None Detected		
Client Sample ID:	RM-01B					Lab Sample ID:	691700798-0041
Sample Description:	ROOF - AROUND FUME H	OOD EXHAUST	MANIFOLD				
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM Grav. Reduction	5/04/2017	Black	0.0%	100%	None Detected		
Client Sample ID:	RM-01C					Lab Sample ID:	691700798-0042
Sample Description:	ROOF - AROUND FUME H	OOD EXHAUST	MANIFOLD				
	Analyzed		Non	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	5/04/2017	Black	10%	90%	None Detected		

Analyst(s):

Kathleen Cruz PLM (13) PLM Grav. Reduction (29)

Reviewed and approved by:

mji

Nicole Yeo, Laboratory Manager or Other Approved Signatory

None Detected = <0.1%. EMSL maintains liability limited to cost of analysis. 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. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. This report must not be used to claim product endorsement by NVLAP of any agency of the U.S. Government.

Samples analyzed by EMSL Canada Inc. Burnaby, BC

Initial report from: 05/04/201711:55:33

Test Report:EPAMultiTests-7.32.2.D Printed: 5/04/2017 11:55AM



Attn: Keith Irwin Phone: (604) 412-3004 Stantec Consulting, Ltd. Fax: 900 94/27/17 10:57 AM 500 - 4730 Kingsway Received: 04/27/17 10:57 AM Burnaby, BC V5H 0C6 Collected: Fax:

Project: 123220871.200

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

Client Sample Description	Lab ID Co	ollected	Analyzed	Leaa Concentration			
P-01	551704546-0001		5/1/2017	1900 ppm			
	Site: Red on Steel-	Structural S	Steel Beams Throughout				
P-02	551704546-0002		5/1/2017	450 ppm			
	Site: Green on Steel the Mechanical Mez	Site: Green on Steel- Structural Steel Bracing & Columns Throughout the Mechanical Mezzanine					
P-03	551704546-0003		5/1/2017	5600 ppm			
	Site: Yellow on Stee Throughout the Mec	el- Structura chanical Me	Il Steel Beams, Bracing & Columns				
P-04	551704546-0004		5/1/2017	<90 ppm			
	Site: Green on Seale Mezzanine	ed Concrete	e- Floor Throughout the Mechanical				
P-05	551704546-0005		5/1/2017	<90 ppm			
	Site: Grey on Drywa	all- Walls Th	nroughout the Mechanical Mezzanine				
P-06	551704546-0006		5/1/2017	1100 ppm			
	Site: Green on Steel/ Aluminum- On Steel Exhaust Manifold Frame & Roof Flashing on the Roof						
P-07	551704546-0007		5/1/2017	<740 ppm			
	Site: Cream on Part	ticle Board/ to reach rep	Aluminum- On Fume Hoods Throughout porting limit.				

Stanto

Rowena Fanto, Lead Supervisor or other approved signatory

*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. 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. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Definitions of modifications are available upon request.

Samples analyzed by EMSL Canada Inc. Mississauga, ON A2LA Accredited Environmental Testing Cert #2845.08

Initial report from 05/04/2017 08:43:07

F.H. Tag #26 – Solvent fume hood in B117

Used for conducting ultra clean dissections and tissue preparation as well as final cleaning of dissection tools

Tissue preparation can take weeks to months depending on the program

Storage of solvents for equipment cleaning and sample preservation Solvent washing glassware and equipment – during times of high lab usage (ie. Busy field seasons) – acetone, hexane, dichloromethane

F.H. Tag #27 – Solvent fume hood in B116

Used for final cleaning field equipment and glassware prior to sampling

Conducting experiments with samples suspected to be low levels of contamination – experiments can last hours to days

Storage of solvents for equipment cleaning and sample preservation Solvent washing glassware and equipment – used weekly to monthly for this, depending on the season

Acetone, hexane, dichloromethane

Occasionally – sodium hydroxide solutions mixed/stored/used here as well

F.H. Tag #28 – Acid fume hood in B116

Used for final cleaning field equipment and glassware prior to sampling

Conducting experiments with samples suspected to be low levels of contamination – experiments can last hours to days

Storage of acids and acid solutions, both dilute and concentrated Acid washing of sampling equipment – used weekly to monthly for this, depending on the season – sulfuric, nitric, and hydrochloric acids

F.H. Tag #29 – Acid fume hood in B115

Used for cleaning highly contaminated field equipment and glassware returning from field use

Conducting experiments with samples suspected to be highly contaminated- experiments can last hours to days

Chemical and glassware storage

Used for equipment cleaning/drying seasonally – during times of high lab usage (ie. Busy field seasons) F.H. Tag # 30 – Solvent fume hood in B115

Used for cleaning highly contaminated field equipment and glassware returning from field use

Conducting experiments with samples suspected to be highly contaminated – experiments can last hours to days

Formalin – filling/transferring usual seasonal use (fall) \sim 1hr everyday for 1 month

Ethanol – filling/transferring usual seasonal use (fall) ~ 1hr everyday for 1 month

Vacuum pump is used in here to capture exhaust fumes – used ~1 per month for full day

F.H. Tag #31 - Acid fume hood in B114

Storage of acid solutions (usually dilute) for washing sampling equipment.

Acid washing of sampling equipment – used about once per month for this purpose. Nitric acid, hydrochloric acid

F.H. Tag # 32 – Acid fume hood in B113

Primarily used for storage of samples in ethanol or formalin Some solvent storage/solvent washing of sampling equipment also occurs in this fume hood (though it is an acid fume hood, no acids are present) - hexanes