



May 22, 2025

CITY OF COQUITLAM

City Lands and Real Estate

3000 Guildford Way
Coquitlam, BC V3B 7N2

Attention: Mr. Sandeep Minhas, BA, RI
Senior Property Valuator - Negotiator

**Ref: CONTRACTOR VERSION - PRE-PROJECT HAZARDOUS BUILDING MATERIALS SURVEY FOR THE
PLANNED DEMOLITION OF THE RESIDENTIAL DWELLING AND OUT-BUILDING AT 628 SHAW
AVENUE, COQUITLAM, BC**

1.0 INTRODUCTION

Astech Consultants Ltd. (Astech) was retained by the City of Coquitlam to conduct a Pre-Project Hazardous Building Materials Survey and compile a detailed report on the presence and location of asbestos containing building materials, lead, polychlorinated biphenyls (PCBs), mercury, stored chemicals, and silica to be impacted by the planned demolition of the Residential Dwelling and Out-Building located at 628 Shaw Avenue, Coquitlam, BC.

Astech's survey and report format is designed specifically to satisfy the current applicable regulation from the Workers' Compensation Board of British Columbia (WCB) Occupational Health and Safety Regulation 20.112 regarding hazardous building material assessments by a Qualified Person for buildings and structures.

This survey was conducted on May 2 and 9, 2025 by Scott Price assisted by Jesse James and Brian Tang of Astech. It must be emphasized that this survey was concerned exclusively with the subject buildings. The site survey was destructive in nature and thorough in investigating layered floor, wall, and ceiling systems. However, inaccessible areas which would require the actual dismantling of substantial portions of the buildings in order to gain access were not investigated. No attempt was made to investigate underground services or the surrounding property. Therefore, if during work activities, other hazardous materials, asbestos containing materials, or potential asbestos containing materials not included in this report are discovered, work should immediately cease in the affected area. At that time, Astech should be contacted so that they can initiate immediate appropriate action so that there are no undue delays.

2.0 BUILDING DESCRIPTION

The subject buildings on site are described as:

- a one-storey plus basement residential dwelling with carport and faced with wood siding. According to BC Assessment, the building was originally constructed in 1954. The building has had a few renovations over the years. The building is heated by a forced air natural gas furnace and ductwork. At the time of survey, the interior and exterior of the building were in good condition.

- a detached garage faced with wood siding. At the time of survey, the interior and exterior of the building were in fair condition.

3.0 METHODOLOGY

3.1 ASBESTOS CONTAINING MATERIALS

A visual inspection was undertaken in order to determine the type, location, and homogeneous nature of asbestos and potential asbestos containing building materials located at the subject buildings. During this inspection, one hundred twenty-two (122) bulk samples of potential asbestos containing materials were collected from specific locations of the buildings. The number of samples collected during this survey are in accordance with the guidelines established by the WCB in their 2023 publication Safe Work Practices for Handling Asbestos, and as indicated by actual site conditions. The samples collected were submitted for analysis at our in-house laboratory in accordance with the WCB Occupational Health and Safety Regulation, utilizing polarized light microscopy, and dispersion staining techniques. Results of laboratory analysis of the samples collected during this survey are attached.

3.2 LEAD FINISHES

A visual inspection was undertaken in order to determine the type and location of paints, primers, coatings, and/or glazing finishes suspected of containing lead at the subject buildings. During this inspection, twenty-three (23) potential lead finishes were analyzed from specific locations of the buildings. The finishes were analyzed in accordance with US EPA methods and the requirements of the WCB Occupational Health and Safety Regulation. Results of the finishes analyzed during this survey are attached.

During this inspection, eleven (11) bulk samples of intact lead containing paint on wood and cementitious substrates were collected from the subject buildings. The bulk samples were submitted for Toxicity Characteristic Leachate Procedure for lead (TCLP lead) laboratory analysis in accordance with US EPA methods and the requirements of the WCB Occupational Health and Safety Regulation. Results of laboratory analysis of the samples collected during this survey are attached.

3.3 LEAD CONSTRUCTION MATERIALS, SOLID PCBs, MERCURY, STORED CHEMICALS, AND SILICA

A visual inspection was undertaken at the subject buildings in order to determine the presence of:

- construction materials suspected of containing lead and other heavy metals,
- fluorescent and high intensity discharge (HID) light fixtures suspected of containing PCB ballasts or capacitors,
- thermostats, light tubes/bulbs, and associated equipment suspected of containing mercury,
- stored chemicals suspected of being toxic, flammable, or explosive, and
- building materials suspected of containing silica in crystalline and non-crystalline forms.

4.0 INSPECTION RESULTS

4.1 ASBESTOS CONTAINING MATERIALS

GENERAL NOTE

#1 Potential Asbestos Containing Building Materials: The potential asbestos containing building materials listed below were inaccessible at time of survey and must be considered asbestos containing until laboratory results determine otherwise. In order to test the materials destructive testing may be required.

The visual inspection and/or analytical results determined that asbestos containing materials and/or potential asbestos containing materials are located at the following specific locations:

RESIDENTIAL DWELLING - BASEMENT

East Recreation Room

- Asbestos containing aluminized paper insulation within incandescent light fixture.
- Asbestos containing paper and/or paper tape on ductwork within ceiling space.

East Hallway including Closet

- Potential asbestos containing packings in connection bells of cast iron drain pipes (see General Note #2 above).

Northeast Stairwell Landing,
Utility Closet Beneath Stairs,
North Storage Room,
South Bedroom including Closet,
South Bathroom, and
Southwest Bedroom including Closet
- No asbestos materials observed.

Wall Cavities and Ceiling Spaces

- Asbestos containing paper and/or paper tape on ductwork within ceiling space of East Recreation Room (may also be present in other areas).
- Potential asbestos containing packings in connection bells of cast iron drain pipes (see General Note #2 above).

RESIDENTIAL DWELLING - MAIN FLOOR

West Entrance Foyer including Closet

- Asbestos containing paper backed sheet flooring (concealed beneath a layer of non-asbestos foam backed sheet flooring and other building materials).

Southeast Kitchen

- Asbestos containing paper backed sheet flooring (some concealed).

**Southwest Bedroom including Closet,
Southwest Bathroom,
Northwest Bedroom including Closet,
West Hallway,
Southwest Laundry Room including Closet,
North Bedroom including Closet,
Northeast Stairwell to Basement,
Northeast Living Room, and
Southeast Dining Room**
- No asbestos materials observed.

Floor Cavities

- **Asbestos** containing paper and/or paper tape on ductwork.
- Potential **asbestos** containing packings in connection bells of cast iron drain pipes (see General Note #2 above).

Wall Cavities, Ceiling Spaces, and Attic

- Non-asbestos kraft-faced fibreglass batt insulation.
- No asbestos materials observed.

RESIDENTIAL DWELLING - EXTERIOR**Walls**

- **Asbestos** containing caulking at west wall electrical conduit penetration (some concealed).

Doors and Windows

- **Asbestos** containing sealant in exterior wood-framed windows (mostly concealed).

Rooftop

- No asbestos materials observed.

DETACHED GARAGE - GROUND FLOOR

**East Vehicle Bay, and
West Vehicle Bay Including Closet**
- No asbestos materials observed.

DETACHED GARAGE - EXTERIOR**Walls and Doors**

- No asbestos materials observed.

Rooftop

- **Asbestos** containing caulking at joints of metal rain gutters (some concealed).

4.2 LEAD

The visual inspection and/or laboratory analytical results determined the following at the subject buildings (some of which is in a deteriorated condition and flaking):

RESIDENTIAL DWELLING - INTERIOR

- non-leachable light beige paint containing 1,539 parts per million (PPM) of **lead** was used on wood surfaces,
- non-leachable light green paint containing 1,216 PPM of **lead** was used on plaster,
- non-leachable light beige paint containing 1,146 PPM of **lead** was used on plaster,
- non-leachable pink paint containing 568 PPM of **lead** was used on plaster,
- non-leachable white paint containing 592 PPM of **lead** was used on plaster,
- non-leachable light green paint containing 544 PPM of **lead** was used on wood surfaces,
- non-leachable white paint containing 405 PPM of **lead** was used on wood surfaces,
- dark green paint containing 313 PPM of **lead** was used on wood doors,
- pink paint containing 170 PPM of **lead** was used on wall paper,
- dark brown stain containing 78 PPM of **lead** was used on wood surfaces,
- brown stain containing 69 PPM of **lead** was used on wood surfaces,
- white paint containing 23 PPM of **lead** was used on concrete foundation,
- brown paint containing 16 PPM of **lead** was used on wood surfaces,
- black paint considered to be **lead** containing was used on metal railings,
- light beige glazing finish considered to be **lead** containing was used on ceramic tiles,
- there is **lead** solder on windows of wood doors and cabinetry, and
- the connection bells of cast iron drain pipes contain a **lead** packing material and there are **lead** sleeves at the toilets.

RESIDENTIAL DWELLING - EXTERIOR

- non-leachable white paint containing 7,353 PPM of **lead** was used on wood surfaces,
- **leachable** beige paint containing 5,195 PPM of **lead** was used on wood surfaces,
- **leachable** green paint containing 3,573 PPM of **lead** was used on wood surfaces,
- non-leachable brown stain containing 160 PPM of **lead** was used on wood surfaces,
- white paint containing 71 PPM of **lead** was used on flowerbox brick,
- white, beige, and black paints considered to be **lead** containing were used on metal surfaces, and
- there may be **lead** roof vents and caps located on the rooftop.

DETACHED GARAGE - INTERIOR

- black paint containing 978 PPM of **lead** was used on wood door,
- white paint containing 584 PPM of **lead** was used on wood door and plywood, and
- white paint considered to be **lead** containing was used on metal garage doors.

DETACHED GARAGE - EXTERIOR

- white paint containing 6,319 PPM of **lead** was used on wood surfaces,
- **leachable** green paint containing 3,758 PPM of **lead** was used on wood surfaces,
- **leachable** beige paint containing 1,683 PPM of **lead** was used on wood surfaces, and
- white paint considered to be **lead** containing was used on metal surfaces.

4.3 PCBs

The visual inspection determined that there are five (5) fluorescent light fixtures at the subject buildings suspected of having one or more PCB containing ballasts. PCB ballast identification requires the disassembly of the light fixture in order to locate the manufacturer's identification code.

4.4 MERCURY

The visual inspection determined that there are no wall mounted thermostats at the subject buildings that contain mercury. However, there are several fluorescent light tubes/bulbs at the subject buildings that contain mercury (including some in storage).

4.5 STORED CHEMICALS AND OTHER HAZARDOUS MATERIALS

The following list of materials were present in and around the subject buildings at time of inspection:

- a few containers of paint, cleaners, petroleum products, and pool chemicals,
- a few fire extinguishers,
- batteries in alarm system,
- compressors and piping with suspect ozone depleting substances (CFC's) in two refrigerators and one freezer,
- smoke detector(s) with a radioactive component within,
- a few areas with rodent droppings, and
- piping containing natural gas leading to heating equipment.

4.6 SILICA

All concrete, cement, brick, ceramic tile, gypsum board, plaster, grout, mortar, and any other cementitious building materials located at the subject buildings are suspected of containing silica in crystalline and non-crystalline forms.

4.7 GYPSUM BOARD

The visual inspection and/or laboratory analytical results determined that there is non-asbestos filling compound on gypsum board and gypsum board lath behind non-asbestos plaster located throughout the Dwelling.

5.0 RECOMMENDATIONS

5.1 ASBESTOS CONTAINING MATERIALS

Prior to demolition of a building, the asbestos containing materials (or potential asbestos containing materials) must first be removed and disposed of as asbestos waste by a qualified hazardous materials abatement contractor in accordance with the WCB Occupational Health and Safety Regulation. Disposal of asbestos containing materials must be performed in accordance with the BC Ministry of Environment and Climate Change Strategy - *Environmental Management Act* - Hazardous Waste Regulation.

5.2 LEAD

Paints/Primers

Where lead (or considered to be lead) based paints and/or primers are affected by a project, the work must be performed by a qualified contractor in accordance with the WCB Occupational Health and Safety Regulation and their 2020 publication entitled Safe Work Practices For Handling Lead.

Where the base substrate material is to be removed in conjunction with lead paint removal, the base substrate and lead based paints and/or primers should be removed intact by the contractor, in accordance with the contractor's risk assessment and site specific work procedures. The workers conducting the work and workers in close proximity to the work being performed, should be protected with personal protective equipment as determined by the contractor's risk assessment and site specific work procedures.

Lead containing paints which remain attached to wood and/or other building materials must be labelled as lead based paints (LBP) for transporting to a licensed/approved disposal site or recycling facility. A licensed/approved facility receiving the waste must be informed of the lead content of these materials and be agreeable to receiving these materials. Prior to acceptance of waste with lead paints at a licensed/approved disposal facility, the contractor generating the waste must ensure that all waste materials containing LBP's are sampled intact, fastened directly to the base substrate, and representative of the waste stream created by demolition. Astech has submitted eleven (11) samples for analysis utilizing a Toxicity Characteristic Leachate Procedure for lead (TCLP lead) test to determine the potential for soil and/or groundwater contamination. The contractor shall have any additional samples analyzed utilizing a TCLP lead test to determine the potential for soil and/or groundwater contamination, if deemed necessary by the site receiving the waste.

If the lead paints are to be separated or removed from the building materials by means of sanding, scraping, abrading, blasting, etc., more stringent work procedures would apply. The removed lead paints, depending on lead concentrations and leachate results, may become a Hazardous Waste and therefore must be disposed of in accordance with the BC Ministry of Environment and Climate Change Strategy - *Environmental Management Act* - Hazardous Waste Regulation.

Glazing Finishes

Where ceramic tiles with lead (or potential lead) glazing finishes are to be removed, the ceramic tile and glazing finish should be removed intact. The workers conducting the work and workers in close proximity to the work being performed, should be protected with personal protective equipment as determined by the removal contractor's risk assessment and site specific work procedures. Ceramic tiles and glazing finishes that are removed intact may be disposed of as normal construction waste.

If the lead glazing finishes are to be separated or removed from the ceramic tiles by means of sanding, scraping, abrading, blasting, etc., more stringent work procedures by a qualified abatement contractor would apply in order to satisfy the WCB Occupational Health and Safety Regulation and their 2020 publication entitled Safe Work Practices For Handling Lead.

Lead Construction Materials

Prior to demolition of a building, the lead solder on wood windows, lead in bells of drain pipe, lead sleeves at toilets, and lead roof jacks must first be removed, and be salvaged, recycled, or disposed of in accordance with the BC Ministry of Environment and Climate Change Strategy - *Environmental Management Act* - Hazardous Waste Regulation.

5.3 PCB CONTAINING BALLASTS

It is recommended that the identification of PCB ballasts be performed by qualified personnel prior to or in conjunction with the demolition of a building, at a time when it becomes feasible to isolate electrical power and disassemble/disconnect the light fixtures. The ballasts that are identified as PCB containing must be removed in accordance with the WCB Occupational Health and Safety Regulation and disposed of in accordance with the BC Ministry of Environment and Climate Change Strategy - *Environmental Management Act* - Hazardous Waste Regulation.

5.4 MERCURY

Prior to demolition of a building, the mercury containing light tubes/bulbs must first be removed, and be salvaged, recycled or disposed of, in accordance with the BC Ministry of Environment and Climate Change Strategy - *Environmental Management Act* - Hazardous Waste Regulation.

5.5 STORED CHEMICALS AND OTHER HAZARDOUS MATERIALS

Stored Chemicals

Prior to demolition of a building, stored chemicals, ozone depleting substances within refrigeration equipment, and radioactive equipment must first be removed, and be recycled or disposed of, in accordance with the BC Ministry of Environment and Climate Change Strategy - *Environmental Management Act* - Hazardous Waste Regulation.

Rodent Droppings

Rodent droppings which can cause infectious disease and/or respiratory disease in humans should be removed as biohazardous waste by a qualified abatement contractor in accordance with the WCB Occupational Health and Safety Regulation, prior to unprotected trades performing work in or conducting selective demolition of a building. In lieu of removing droppings, workers shall wear respirators and protective clothing while in contaminated areas of a building, and while conducting selective demolition of a building.

Natural Gas

The natural gas must be shut off and purged by Fortis BC or a qualified trades person prior to work that would affect the gas, and prior to building demolition.

5.6 SILICA

Where cementitious building materials that are suspected of containing silica in crystalline form are directly impacted by the project (i.e. drilling, cutting, abrading, etc.), the work should be performed in a controlled manner to avoid the release of crystalline silica dust. Cutting, drilling, or otherwise disturbing these building materials must be performed by a qualified contractor's trained personnel in accordance with the WCB Occupational Health and Safety Regulation.

5.7 RECYCLABLE GYPSUM BOARD

Prior to the demolition of a building, the gypsum board with no asbestos finishes (a provincially regulated construction waste) must first be removed by a qualified contractor, and be recycled or disposed of in accordance with the BC Ministry of Environment and Climate Change Strategy - *Environmental Management Act* - Hazardous Waste Regulation. Landfills are issued operational certificates from the BC Ministry of Environment, and for local landfills and others their certificate specifies that gypsum board cannot be accepted for disposal, and therefore local depots offer recycling services.

6.0 OWNER'S AND ABATEMENT CONTRACTOR'S RESPONSIBILITIES

Owner's Responsibilities

For the remediation of hazardous building materials, contract specifications, quality control, and final acceptance of the work remain the responsibility of the Owner. In order to ensure that the Owner has acted in a responsible manner, and to ensure regulatory board compliance, it is recommended that the work and project air monitoring be performed by a qualified and properly insured (with proof of necessary asbestos inclusion rider) Hazardous Materials Abatement Contractor.

Abatement Contractor's Responsibilities

The Abatement Contractor upon completing the work shall have their "Qualified Person" inspect the worksite in its entirety to confirm that asbestos and other hazardous building materials have been properly removed, then promptly provide the Owner with a signed Letter of Completion.

As well, prior to transport of hazardous waste, the Abatement Contractor shall assist the Owner by completing and submitting the BC Ministry of Environment and Climate Change Strategy Waste Generator Number Registration Form (Schedule 5 Form 1), once signed by the Owner, if no BC Generator number exists. If a BC Generator number exists and requires updating for this specific project, the Abatement Contractor shall assist with completing and submitting the update.

Project Documentation should also be provided to the Owner including, but not necessarily limited to, a Notice of Project for work involving Asbestos and/or Lead Paint, Risk Assessment, Exposure Control Plan, and Site Specific Work Procedures, Worker Respirator Fit Test Forms/Logs and Training Acknowledgement Forms, Certification of DOP Testing of HEPA Filtered Equipment used on site, Air Sample Results, Material Safety Data Sheets (MSDS) for products used on site, Transportation Waybills, and Waste Manifest Forms.

7.0 APPROXIMATE QUANTITIES FOR HAZARDOUS MATERIALS

The following approximate quantities for hazardous materials are provided as a means to satisfy the requirements of the WCB, and are provided for reference only. Contractors shall be responsible for verifying exact quantities for the purpose of bidding the work.

ASBESTOS CONTAINING MATERIALS		APPROXIMATE QUANTITIES
Confirmed Asbestos Containing Materials		
Asbestos Paper Backed Sheet Flooring and Contaminated Building Materials (to be removed intact with base wood substrate remaining attached) (including work area enclosure and air monitoring)		260 square feet
Asbestos Caulking at Electrical Conduit Penetrations		1 location
Asbestos Caulking at Joints of Metal Rain Gutters		60 lineal feet
Asbestos Paper and/or Paper Tape on Ductwork, Wood, Registers, and Debris		Not Determined
Asbestos Aluminized Paper Insulation within Incandescent Light Fixtures		1 fixture
Asbestos Sealant in Exterior Wood-Framed Windows		22 windows
Potential Asbestos Containing Materials		
Potential Asbestos Packings in Connection Bells of Cast Iron Drain Pipes		15 bells
OTHER HAZARDOUS MATERIALS		
Leachable Lead Paint Remaining Attached to Building Materials for Disposal		2,540 square feet
Lead Products for Salvage/Recycle (lead solder on wood windows, lead in bells of drain pipe, lead sleeves, and lead roof vents and caps)		Not Determined
Potential PCB Containing Ballasts		5 fixtures
Mercury Containing Light Tubes/Bulbs		16 tubes / 2 bulbs

We hope you have found the above information useful. If you have any questions, or require clarification please contact this office.

A handwritten signature in black ink, enclosed within a hand-drawn oval. The signature appears to be 'Scott Price'.

Scott Price, Principal
Astech Consultants Ltd.
Ref: 28158HE01C.SP



ASBESTOS BULK SAMPLE REPORT

Date: May 22, 2025

Client: CITY OF COQUITLAM

Location: Residential Dwelling and Out-Building
628 Shaw Avenue
Coquitlam, BC

Comments:

- 1) Asbestos (bulk) by PLM analyzed as per NIOSH 9002 Issue 2.
- 2) Workers' Compensation Board of British Columbia (WCB) defines asbestos containing material as 0.5% or more asbestos, with the exception of Vermiculite Insulation which is defined as "any asbestos".
- 3) Samples will be disposed of after 90 days, unless the Client requests otherwise.

Sample(s) Collected on May 2, 2025

Sample	Location	Description	Layer: Colour	Non-Asbestos	Asbestos
				% Type	% Type
28158 BS01	Dwelling - Main Floor - West Entrance Foyer	Sheet Flooring Wear Surface	1: Beige	100% Non-Fibrous	None Detected
		Foam Backing	2: Off-White	100% Non-Fibrous	None Detected
28158 BS02	Dwelling - Main Floor - West Entrance Foyer	Sheet Flooring Wear Surface	3: Brown	100% Non-Fibrous	None Detected
		Paper Backing	4: Grey	15% Non-Fibrous	85% Chrysotile
28158 BS03	Dwelling - Main Floor - West Entrance Foyer (West Wall)	Sealant (in Exterior Wood-Framed Window)	1: Beige	98% Non-Fibrous	2% Chrysotile
28158 BS04	Dwelling - Main Floor - West Entrance Foyer (South Wall)	Mirror Adhesive	1: Black	100% Non-Fibrous	None Detected
28158 BS05	Dwelling - Main Floor - Southwest Bedroom	Floor Construction Paper	1: Brown	98% Cellulose 2% Non-Fibrous	None Detected
28158 BS06a	Dwelling - Main Floor - Southwest Bedroom (South Wall)	Paint	1: Grey	100% Non-Fibrous	None Detected
		Plaster (Outer Layer)	2: White		
28158 BS06b	Dwelling - Main Floor - Southwest Bedroom (South Wall)	Plaster (Inner Layer)	3: Grey	2% Cellulose 98% Non-Fibrous	None Detected

Sample	Location	Description	Layer: Colour	Non-Asbestos	Asbestos
				% Type	% Type
28158 BS07	Dwelling - Main Floor - Southwest Bathroom	Ceramic Floor Tile Grout	1: Off-White	100% Non-Fibrous	None Detected
28158 BS08	Dwelling - Main Floor - Southwest Bathroom	Ceramic Floor Tile Mortar	2: Grey	100% Non-Fibrous	None Detected
28158 BS09	Dwelling - Main Floor - Southwest Bathroom	Floor Construction Paper	3: Brown	98% Cellulose 2% Non-Fibrous	None Detected
28158 BS10a	Dwelling - Main Floor - Southwest Bathroom (West Wall)	Paint Plaster (Outer Layer)	1: Pink 2: White	100% Non-Fibrous	None Detected
28158 BS10b	Dwelling - Main Floor - Southwest Bathroom (West Wall)	Plaster (Inner Layer)	3: Grey	2% Cellulose 98% Non-Fibrous	None Detected
28158 BS11	Dwelling - Main Floor - Southwest Bathroom (North Wall)	Ceramic Tile Grout	1: Off-White	100% Non-Fibrous	None Detected
28158 BS12	Dwelling - Main Floor - Southwest Bathroom (North Wall)	Ceramic Tile Mortar	2: Grey	100% Non-Fibrous	None Detected
28158 BS13a	Dwelling - Main Floor - Northwest Bedroom (West Wall)	Paint Plaster (Outer Layer)	1: Beige 2: White	100% Non-Fibrous	None Detected
28158 BS13b	Dwelling - Main Floor - Northwest Bedroom (West Wall)	Plaster (Inner Layer)	3: Grey	2% Cellulose 98% Non-Fibrous	None Detected
28158 BS14a	Dwelling - Main Floor - West Hallway (North Wall)	Paint Plaster (Outer Layer)	1: Light Green 2: White	100% Non-Fibrous	None Detected
28158 BS14b	Dwelling - Main Floor - West Hallway (North Wall)	Plaster (Inner Layer)	3: Grey	2% Cellulose 98% Non-Fibrous	None Detected
28158 BS15	Dwelling - Main Floor - Southwest Laundry Room	Sheet Flooring Wear Surface	1: Beige	2% Cellulose 98% Non-Fibrous	None Detected
		Felt Backing	2: Black	75% Cellulose 10% Synthetic 15% Non-Fibrous	None Detected
28158 BS16	Dwelling - Main Floor - Southwest Laundry Room	Ceramic Counter Top Tile Mortar	1: Grey	100% Non-Fibrous	None Detected
28158 BS17	Dwelling - Main Floor - Attic	Kraft-Faced Fiberglass Batt Insulation	1: Dark Brown	98% Glass 2% Non-Fibrous	None Detected
		Insulation Adhesive	2: Black	2% Cellulose 2% Glass 96% Non-Fibrous	None Detected
		Insulation Paper Backing	3: Brown	98% Cellulose 2% Non-Fibrous	None Detected
28158 BS18	Dwelling - Main Floor - North Bedroom	Floor Construction Paper	1: Brown	98% Cellulose 2% Non-Fibrous	None Detected

Sample	Location	Description	Layer: Colour	Non-Asbestos	Asbestos
				% Type	% Type
28158 BS19	Dwelling - Main Floor - Northeast Living Room	Fireplace Brick Mortar	1: Grey	100% Non-Fibrous	None Detected
28158 BS20	Dwelling - Main Floor - Northeast Living Room	Fireplace Brick Mortar	1: Grey	100% Non-Fibrous	None Detected
28158 BS21	Dwelling - Main Floor - Northeast Living Room	Fireplace Brick Mortar	1: Grey	100% Non-Fibrous	None Detected
28158 BS22a	Dwelling - Main Floor - Northeast Living Room (East Wall)	Paint Plaster (Outer Layer)	1: Light Green 2: White	100% Non-Fibrous	None Detected
28158 BS22b	Dwelling - Main Floor - Northeast Living Room (East Wall)	Plaster (Inner Layer)	3: Grey	2% Cellulose 98% Non-Fibrous	None Detected
28158 BS23a	Dwelling - Main Floor - Northeast Living Room (Ceiling)	Paint Textured Plaster (Outer Layer)	1: Light Green 2: Beige	100% Non-Fibrous	None Detected
28158 BS23b	Dwelling - Main Floor - Northeast Living Room (Ceiling)	Textured Plaster (Inner Layer)	3: White	100% Non-Fibrous	None Detected
28158 BS24a	Dwelling - Main Floor - Northeast Living Room (Ceiling)	Paint Textured Plaster (Outer Layer)	1: Light Green 2: Beige	100% Non-Fibrous	None Detected
28158 BS24b	Dwelling - Main Floor - Northeast Living Room (Ceiling)	Textured Plaster (Inner Layer)	3: White	100% Non-Fibrous	None Detected
28158 BS25a	Dwelling - Main Floor - Southeast Dining Room (Ceiling)	Paint Textured Plaster (Outer Layer)	1: Light Green 2: Beige	100% Non-Fibrous	None Detected
28158 BS25b	Dwelling - Main Floor - Southeast Dining Room (Ceiling)	Textured Plaster (Inner Layer)	3: White	100% Non-Fibrous	None Detected
28158 BS26	Dwelling - Main Floor - Southeast Kitchen	Sheet Flooring Wear Surface	1: Brown	100% Non-Fibrous	None Detected
		Paper Backing	2: Grey	15% Non-Fibrous	85% Chrysotile
28158 BS27a	Dwelling - Main Floor - Southeast Kitchen (South Wall)	Paint Plaster (Outer Layer)	1: Light Grey 2: White	100% Non-Fibrous	None Detected
28158 BS27b	Dwelling - Main Floor - Southeast Kitchen (South Wall)	Plaster (Inner Layer)	3: Grey	2% Cellulose 98% Non-Fibrous	None Detected
28158 BS28	Dwelling - Main Floor - Southeast Kitchen	Coating (on Underside of Metal Sink)	1: Beige	5% Cellulose 95% Non-Fibrous	None Detected
28158 BS29	Dwelling - Main Floor - Southeast Kitchen (North Wall)	Cove Base	1: Dark Brown	100% Non-Fibrous	None Detected
28158 BS30	Dwelling - Main Floor - Southeast Kitchen (North Wall)	Cove Base Adhesive	2: Tan	100% Non-Fibrous	None Detected

Sample	Location	Description	Layer: Colour	Non-Asbestos	Asbestos
				% Type	% Type
28158 BS31	Dwelling - Basement - Northeast Stairwell Landing	Marble Floor Tile Mortar	1: Grey	100% Non-Fibrous	None Detected
28158 BS32	Dwelling - Basement - Northeast Stairwell Landing	Flooring Adhesive	2: Dark Brown	100% Non-Fibrous	None Detected
28158 BS33a	Dwelling - Basement - Northeast Stairwell Landing (Ceiling)	Paint Textured Plaster (Outer Layer)	1: Yellow 2: White	100% Non-Fibrous	None Detected
28158 BS33b	Dwelling - Basement - Northeast Stairwell Landing (Ceiling)	Textured Plaster (Inner Layer)	3: Grey	2% Cellulose 98% Non-Fibrous	None Detected
28158 BS34	Dwelling - Basement - East Recreation Room	Cork Flooring	1: Brown	30% Cellulose 70% Non-Fibrous	None Detected
28158 BS35	Dwelling - Basement - East Recreation Room	Flooring Adhesive	2: Black	100% Non-Fibrous	None Detected
28158 BS36	Dwelling - Basement - East Recreation Room	Fireplace Brick Mortar	1: Brown	100% Non-Fibrous	None Detected
28158 BS37	Dwelling - Basement - East Recreation Room	Fireplace Brick Mortar	1: Brown	100% Non-Fibrous	None Detected
28158 BS38	Dwelling - Basement - East Recreation Room	Fireplace Brick Mortar	1: Brown	100% Non-Fibrous	None Detected
28158 BS39a	Dwelling - Basement - East Recreation Room	Paint Textured Plaster (Outer Layer)	1: Beige 2: Beige	100% Non-Fibrous	None Detected
28158 BS39b	Dwelling - Basement - East Recreation Room	Textured Plaster (Inner Layer)	3: Grey	2% Cellulose 98% Non-Fibrous	None Detected
28158 BS40	Dwelling - Basement - East Recreation Room	Gasket (on Door of Cast Iron Fireplace)	1: Grey	99% Glass 1% Non-Fibrous	None Detected
28158 BS41	Dwelling - Basement - East Recreation Room (Ceiling Space)	Paper Duct Tape	1: Grey	15% Non-Fibrous	85% Chrysotile
28158 BS42	Dwelling - Basement - East Recreation Room	Aluminized Paper Insulation (within Incandescent Light Fixture)	1: Grey	15% Non-Fibrous	85% Chrysotile
28158 BS43	Dwelling - Basement - East Hallway	Marble Floor Tile Grout	1: Off-White	100% Non-Fibrous	None Detected
28158 BS44	Dwelling - Basement - East Hallway	Marble Floor Tile Mortar	2: Grey	100% Non-Fibrous	None Detected
28158 BS45	Dwelling - Basement - East Hallway	Flooring Adhesive	3: Black	100% Non-Fibrous	None Detected
28158 BS46	Dwelling - Basement - Utility Closet	Pipe Thread Compound (at Fitting of Natural Gas Piping)	1: Beige	2% Cellulose 98% Non-Fibrous	None Detected
28158 BS47	Dwelling - Basement - Utility Closet	Residue (on Ductwork)	1: Grey	100% Non-Fibrous	None Detected

Sample	Location	Description	Layer: Colour	Non-Asbestos	Asbestos
				% Type	% Type
28158 BS48	Dwelling - Basement - South Bathroom	Adhesive (on Wood Doorway Threshold)	1: Beige	100% Non-Fibrous	None Detected
28158 BS49	Dwelling - Basement - North Storage Room	Sheet Flooring Wear Surface	1: Brown	100% Non-Fibrous	None Detected
		Paper Backing	2: Grey	65% Cellulose 20% Glass 15% Non-Fibrous	None Detected
28158 BS50	Dwelling - Basement - North Storage Room	Adhesive (on Wood Doorway Threshold)	1: Beige	100% Non-Fibrous	None Detected
28158 BS51	Dwelling - Basement - North Storage Room (Ceiling)	Plaster Scratch Coat	1: Grey	2% Cellulose 98% Non-Fibrous	None Detected
28158 BS52	Dwelling - Basement - South Bedroom (Wall)	Paint Filling Compound on Gypsum Board	1: Light Green 2: White	100% Non-Fibrous	None Detected
28158 BS53	Dwelling - Basement - South Bedroom (South Drop Ceiling)	Paint Filling Compound on Gypsum Board	1: Light Green 2: White	100% Non-Fibrous	None Detected
28158 BS54	Dwelling - Basement - South Bedroom (Ceiling)	Paint Spray Applied Texture Coat on Gypsum Board	1: White 2: White	1% Synthetic 99% Non-Fibrous	None Detected
28158 BS55	Dwelling - Basement - South Bedroom (Ceiling)	Paint Spray Applied Texture Coat on Gypsum Board	1: White 2: White	1% Synthetic 99% Non-Fibrous	None Detected
28158 BS56	Dwelling - Basement - South Bedroom (Ceiling)	Paint Spray Applied Texture Coat on Gypsum Board	1: White 2: White	1% Synthetic 99% Non-Fibrous	None Detected
28158 BS57	Dwelling - Basement - South Bathroom (South Wall)	Paint Filling Compound on Gypsum Board	1: Yellow 2: White	100% Non-Fibrous	None Detected
28158 BS58	Dwelling - Basement - South Bathroom	Ceramic Floor Tile Grout	1: Brown	100% Non-Fibrous	None Detected
28158 BS59	Dwelling - Basement - South Bathroom	Ceramic Floor Tile Mortar	2: Grey	100% Non-Fibrous	None Detected
28158 BS60	Dwelling - Basement - South Bathroom	Ceramic Floor Tile Mortar	2: Grey	100% Non-Fibrous	None Detected
28158 BS61	Dwelling - Basement - South Bathroom	Ceramic Floor Tile Mortar	2: Grey	100% Non-Fibrous	None Detected
28158 BS62	Dwelling - Basement - South Bathroom	Ceramic Floor Tile Grout	3: Off-White	100% Non-Fibrous	None Detected
28158 BS63	Dwelling - Basement - South Bathroom	Ceramic Floor Tile Mortar	4: Grey	100% Non-Fibrous	None Detected
28158 BS64	Dwelling - Basement - South Bathroom	Ceramic Floor Tile Mortar	4: Grey	100% Non-Fibrous	None Detected
28158 BS65	Dwelling - Basement - South Bathroom	Ceramic Floor Tile Mortar	4: Grey	100% Non-Fibrous	None Detected

Sample	Location	Description	Layer: Colour	Non-Asbestos	Asbestos
				% Type	% Type
28158 BS66	Dwelling - Exterior (North Wall)	Damp Proofing (on Concrete Foundation)	1: Black	100% Non-Fibrous	None Detected
28158 BS67	Dwelling - Exterior (North Wall)	Construction Paper	1: Brown	98% Cellulose 2% Non-Fibrous	None Detected
28158 BS68	Dwelling - Exterior (North Section)	Caulking (at Joint of Concrete Paver)	1: Grey	100% Non-Fibrous	None Detected
28158 BS69	Dwelling - Exterior (North Wall)	Flower Box Brick Mortar	1: Brown	100% Non-Fibrous	None Detected
28158 BS70	Dwelling - Exterior (North Wall)	Flower Box Brick Mortar	1: Brown	100% Non-Fibrous	None Detected
28158 BS71	Dwelling - Exterior (North Wall)	Flower Box Brick Mortar	1: Brown	100% Non-Fibrous	None Detected
28158 BS72	Dwelling - Exterior (West Wall)	Caulking (at Metal Conduit Penetration)	1: Grey	85% Non-Fibrous	15% Chrysotile
28158 BS73	Dwelling - Exterior (West Wall)	Pipe Thread Compound (at Fitting of Natural Gas Piping)	1: Off-White & Grey	100% Non-Fibrous	None Detected
28158 BS74	Dwelling - Exterior (West Wall)	Caulking (at Joint of Wood Siding)	1: Off-White	100% Non-Fibrous	None Detected
28158 BS75	Dwelling - Exterior (North Wall)	Putty (on Wood-Framed Window)	1: Beige	100% Non-Fibrous	None Detected
28158 BS76	Dwelling - Exterior (South Section)	Caulking (at Joint of Concrete Paver)	1: Grey	100% Non-Fibrous	None Detected
28158 BS77	Dwelling - Exterior (South Section)	Stone Pool Curb Mortar	1: White	100% Non-Fibrous	None Detected
28158 BS78	Dwelling - Exterior (South Section)	Stone Pool Curb Mortar	1: White	100% Non-Fibrous	None Detected
28158 BS79	Dwelling - Exterior (South Section)	Stone Pool Curb Mortar	1: White	100% Non-Fibrous	None Detected
28158 BS80	Dwelling - Exterior (South Section)	Deck Flooring	1: Grey	20% Synthetic 80% Non-Fibrous	None Detected
28158 BS81	Dwelling - Exterior (South Section)	Caulking (where Deck abuts Wood Siding)	1: Grey	100% Non-Fibrous	None Detected
28158 BS82	Dwelling - Exterior (South Section)	Skim Coat (on Concrete Flower Box)	1: Grey	100% Non-Fibrous	None Detected
28158 BS83	Dwelling - Exterior (South Section)	Skim Coat (on Concrete Flower Box)	1: Grey	100% Non-Fibrous	None Detected
28158 BS84	Dwelling - Exterior (South Section)	Skim Coat (on Concrete Flower Box)	1: Grey	100% Non-Fibrous	None Detected
28158 BS85	Dwelling - Exterior (South Wall)	Putty (on Wood-Framed Window)	1: Beige	100% Non-Fibrous	None Detected
28158 BS86	Dwelling - Exterior (South Wall)	Putty (on Wood-Framed Window)	1: Beige	100% Non-Fibrous	None Detected
28158 BS87a	Dwelling - Exterior (South Wall)	Putty (in Window of Wood Door)	1: Beige	100% Non-Fibrous	None Detected

Sample	Location	Description	Layer: Colour	Non-Asbestos	Asbestos
				% Type	% Type
28158 BS87b	Dwelling - Exterior (South Wall)	Putty (in Window of Wood Door)	1: Beige	100% Non-Fibrous	None Detected
28158 BS87c	Dwelling - Exterior (South Wall)	Putty (in Window of Wood Door)	1: Beige	100% Non-Fibrous	None Detected
28158 BS88	Dwelling - Exterior - Rooftop (North Section)	Roofing Shingle	1: Grey	65% Glass 35% Non-Fibrous	None Detected
28158 BS89	Dwelling - Exterior - Rooftop (North Section)	Roofing Shingle Adhesive	2: Black	100% Non-Fibrous	None Detected
28158 BS90	Dwelling - Exterior - Rooftop (North Section)	Roofing Paper	3: Brown	98% Cellulose 2% Non-Fibrous	None Detected
28158 BS91	Dwelling - Exterior - Rooftop (South Section)	Roofing Shingle	1: Grey	65% Glass 35% Non-Fibrous	None Detected
28158 BS92	Dwelling - Exterior - Rooftop (South Section)	Roofing Shingle Adhesive	2: Black	100% Non-Fibrous	None Detected
28158 BS93	Dwelling - Exterior - Rooftop (South Section)	Roofing Paper	3: Brown	98% Cellulose 2% Non-Fibrous	None Detected
28158 BS94	Dwelling - Exterior - Rooftop	Caulking (at Joint of Metal Rain Gutter)	1: Clear	100% Non-Fibrous	None Detected
28158 BS95	Dwelling - Exterior (East Storage Shed Rooftop)	Roofing Shingle	1: Grey	65% Glass 35% Non-Fibrous	None Detected
28158 BS96	Dwelling - Exterior (East Storage Shed Rooftop)	Roofing Shingle Adhesive	2: Black	100% Non-Fibrous	None Detected
28158 BS97	Detached Garage - Exterior - Rooftop	Roofing Shingle	1: Brown & Grey	65% Glass 35% Non-Fibrous	None Detected
28158 BS98	Detached Garage - Exterior - Rooftop	Roofing Shingle Adhesive	2: Black	100% Non-Fibrous	None Detected
28158 BS99	Detached Garage - Exterior - Rooftop	Roofing Shingle	1: Grey	65% Glass 35% Non-Fibrous	None Detected
28158 BS100	Detached Garage - Exterior - Rooftop	Roofing Shingle Adhesive	2: Black	100% Non-Fibrous	None Detected
28158 BS101	Detached Garage - Exterior - Rooftop	Caulking (at Joint of Metal Rain Gutter)	1: Off-White	5% Cellulose 90% Non-Fibrous	5% Chrysotile
28158 BS102	Detached Garage - Exterior - Rooftop	Mastic (at Solar Panel)	1: Black	15% Cellulose 85% Non-Fibrous	None Detected
28158 BS103	Detached Garage - Exterior - Rooftop	Mastic (at Solar Panel)	1: Black	15% Cellulose 85% Non-Fibrous	None Detected
28158 BS104	Detached Garage - Exterior - Rooftop	Mastic (at Solar Panel)	1: Black	100% Non-Fibrous	None Detected
28158 BS105	Dwelling - Exterior (North Wall, Centre Section)	Damp Proofing (on Concrete Foundation)	1: Black	100% Non-Fibrous	None Detected
28158 BS106	Dwelling - Exterior (North Wall, East Section)	Damp Proofing (on Concrete Foundation)	1: Black	100% Non-Fibrous	None Detected
28158 BS107	Detached Garage - Exterior (North Wall)	Putty (on Exterior Wood-Framed Window)	1: Off-White	100% Non-Fibrous	None Detected

Sample	Location	Description	Layer: Colour	Non-Asbestos	Asbestos
				% Type	% Type
28158 BS108	Detached Garage - Exterior (North Wall)	Putty (on Exterior Wood-Framed Window)	1: Off-White	100% Non-Fibrous	None Detected
28158 BS109	Detached Garage - Exterior (North Wall)	Putty (on Exterior Wood-Framed Window)	1: Off-White	100% Non-Fibrous	None Detected

Analyst(s): Lolita Santos

American Industrial Hygiene Association (AIHA) Bulk Asbestos Proficiency Analytical Testing (BAPAT)
Astech Consultants Ltd. Laboratory Participant ID# 200542



LEAD BULK SAMPLE REPORT

Date: May 22, 2025

Client: CITY OF COQUITLAM

Location: Residential Dwelling and Out-Building
628 Shaw Avenue
Coquitlam, BC

Comments: 1) The Workers' Compensation Board of British Columbia (WCB) no longer allows reference to Health Canada's definition of a lead-containing surface coating material.
2) WCB does not define a safe level for a lead-containing surface coating material.
3) Analyzed by X-Ray Fluorescence (XRF) with direct read parts per million (PPM).
4) Sample results report lead only.
5) < means less than, > means more than.

Sample(s) Analyzed on May 2, 2025

Sample	Location	Description	Colour	Lead
				PPM
28158 LS01	Dwelling - Exterior (North Wall)	Paint (on Flowerbox Brick)	White	71 PPM
28158 LS02	Dwelling - Exterior (North Wall)	Paint (on Wood Window Sill)	White	7,353 PPM
28158 LS03	Dwelling - Exterior (North Wall)	Paint (on Wood Wall Trim)	Beige	5,195 PPM
28158 LS04	Dwelling - Exterior (North Wall)	Paint (on Wood Facia)	Green	3,573 PPM
28158 LS05	Dwelling - Exterior (North Wall)	Stain (on Wood Door Trim)	Brown	160 PPM
28158 LS06	Detached Garage - Exterior (East Wall)	Paint (on Wood Siding)	Beige	1,683 PPM
28158 LS07	Detached Garage - Exterior (East Wall)	Paint (on Wood Siding)	White	6,319 PPM
28158 LS08	Detached Garage - Exterior (East Wall)	Paint (on Wood Facia)	Green	3,758 PPM
28158 LS09	Detached Garage - Ground Floor - East Vehicle Bay (West Wall)	Paint (on Wood Door)	White	584 PPM

Sample	Location	Description	Colour	Lead
				PPM
28158 LS10	Detached Garage - Ground Floor - West Vehicle Bay (East Wall)	Paint (on Wood Door)	Black	978 PPM
28158 LS11	Dwelling - Main Floor - West Hallway (North Wall)	Paint (on Plaster)	White	592 PPM
28158 LS12	Dwelling - Main Floor - West Entrance Foyer (South Wall)	Paint (on Wood Door Trim)	White	405 PPM
28158 LS13	Dwelling - Main Floor - Northwest Bedroom (West Wall)	Paint (on Plaster)	Light Beige	1,146 PPM
28158 LS14	Dwelling - Main Floor - Northwest Bedroom (South Wall)	Paint (on Wood Door Trim)	Light Beige	1,539 PPM
28158 LS15	Dwelling - Main Floor - Southwest Laundry Room (East Wall)	Paint (on Plaster)	Light Green	1,216 PPM
28158 LS16	Dwelling - Main Floor - Southwest Laundry Room (East Wall)	Paint (on Wood Base Board)	Light Green	544 PPM
28158 LS17	Dwelling - Main Floor - Southwest Laundry Room (North Wall)	Paint (on Wood Door)	Dark Green	313 PPM
28158 LS18	Dwelling - Main Floor - Southeast Kitchen (Ceiling)	Stain (on Wood Beam)	Dark Brown	78 PPM
28158 LS19	Dwelling - Basement - East Hallway (South Wall)	Stain (on Wood Panel)	Brown	69 PPM
28158 LS20	Dwelling - Basement - Southwest Bedroom (North Ceiling)	Paint (on Plaster)	Pink	568 PPM
28158 LS21	Dwelling - Basement - Southwest Bedroom (East Wall)	Paint (on Wall Paper on Wood Panel)	Pink	170 PPM
28158 LS22	Dwelling - Basement - North Storage Room (North Wall)	Paint (on Concrete Foundation)	White	23 PPM
28158 LS23	Dwelling - Main Floor - Northeast Stairwell to Basement	Paint (on Wood Stair)	Brown	16 PPM

Analyst(s): Scott Price



Certified to ISO:20807; and Health Canada's and Natural Resources Canada's requirements for compliance with Health Canada Safety Code 32 & 34



LEACHATE LEAD SAMPLE REPORT

Date: May 22, 2025

Client: CITY OF COQUITLAM

Location: Residential Dwelling and Out-Building
628 Shaw Avenue
Coquitlam, BC

Comments:

- 1) Samples were analyzed in accordance with Analytical Methods USEPA 1311 (prep) ASTM E3193-20 (analysis) - TCLP Leachate Lead by FAAS, and EPA Analytical Methods 6020A & 1311.
- 2) Sample results report leachate lead only.
- 3) Reportable Detection Limit is 0.25 mg/L.
- 4) Ministry of Environment defines lead leachate hazardous waste level as 5.0 mg/L or greater.
- 5) Samples will be disposed of after 30 days, unless the client requests otherwise.

Sample(s) Collected on May 9, 2025

Sample	Location	Description	Colour	Lead Leachate
				mg/L
28158 LLS01 (LS02)	Dwelling - Exterior (North Wall)	Paint (on Wood Window Sill)	White	4.83 mg/L
28158 LLS02 (LS03)	Dwelling - Exterior (North Wall)	Paint (on Wood Wall Trim)	Beige	5.77 mg/L
28158 LLS03 (LS04)	Dwelling - Exterior (North Wall)	Paint (on Wood Facia)	Green	7.07 mg/L
28158 LLS04 (LS05)	Dwelling - Exterior (North Wall)	Stain (on Wood Door Trim)	Brown	0.31 mg/L
28158 LLS05 (LS11)	Dwelling - Main Floor - West Hallway (North Wall)	Paint (on Plaster)	White	< 0.30 mg/L
28158 LLS06 (LS12)	Dwelling - Main Floor - West Entrance Foyer (South Wall)	Paint (on Wood Door Trim)	White	< 0.25 mg/L
28158 LLS07 (LS13)	Dwelling - Main Floor - Northwest Bedroom (West Wall)	Paint (on Plaster)	Light Beige	< 0.30 mg/L
28158 LLS08 (LS14)	Dwelling - Main Floor - Northwest Bedroom (South Wall)	Paint (on Wood Door Trim)	Light Beige	0.34 mg/L

Sample	Location	Description	Colour	Lead Leachate
				mg/L
28158 LLS09 (LS15)	Dwelling - Main Floor - Southwest Laundry Room (East Wall)	Paint (on Plaster)	Light Green	< 0.30 mg/L
28158 LLS10 (LS16)	Dwelling - Main Floor - Southwest Laundry Room (East Wall)	Paint (on Wood Base Board)	Light Green	< 0.25 mg/L
28158 LLS11 (LS20)	Dwelling - Basement - Southwest Bedroom (North Ceiling)	Paint (on Plaster)	Pink	< 0.30 mg/L