

## **Dry Island Restorations**

**#4-311 Hemlock St.**

**Port McNeill, B.C.**

**VON 2R0**

**Ph) 250-230-7252**

**Fax) 250-956-3635**

**Clearance letter and supporting documentation for the  
asbestos abatement of wall board in the boys and girls  
washrooms of A.J. Elliot School, Sointula B.C.**

## Darby Gildersleeve

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**From:** Allan Keparchuck <dryisle@telus.net>  
**Sent:** March-02-16 9:39 AM  
**To:** Darby Gildersleeve  
**Subject:** Fwd: NOP# E688444 Internet Assigned (Asbestos/Lead)

----- Forwarded Message -----

**Subject:** NOP# E688444 Internet Assigned (Asbestos/Lead)  
**Date:** Wed, 2 Mar 2016 17:29:48 +0000  
**From:** Lade, Donna <Donna.Lade@worksafebc.com>  
**To:** 'dryisle@telus.net' <dryisle@telus.net>

### **NOP# E688444 Internet Assigned (Asbestos/Lead)**

#### **Person in charge:**

Darby Gildersleeve  
Manager of Operations  
250-994-9815

#### **Person completing form:**

Allan Kleparchuk  
250-230-7252  
Written Contractor Agreement?: No  
Received Date: 2015/08/16  
Additional Documents: FAX 2015/08/16

#### **Owner Information**

Firm Number: 117688  
Firm Name: School District 85  
Firm Address: PO box 90  
Port Hardy BC V0N 2P0

#### **Contractor Information**

Firm Number:  
Firm Name: Dry Island Retorations  
Firm Address: #4-311 Hemlock Street  
Port Mcneill BC V0N 2R0

#### **Project Site Location**

Project Site Number: 1  
Region: 74 COURTENAY      Inspection Area: 0370  
Project City: Sointula  
Project Location: AJ Elliot Elementary School Sointula BC 120 4th street  
Start Date: 2015/08/18      Duration: 4 Days

**Asbestos Information**

Consulting Firm Name: Tsolum & Tsable

**Asbestos Contractor Information**

Firm Number:  
Firm Name: Dry Island Restorations  
Firm Address: 1013  
Oliview Drive

Port McNeill BC V0N 2R0  
Hours of Work: Start = 08:00      End = 17:00      Number of Workers = 4  
Renovation = Yes  
Removal = Yes  
Encapsulation = Yes  
Asbestos Risk Level = Low  
Work Procedures Sent: 2015/08/16      FAX

*E-Mail sent by Lade, Donna*

Improve the safety of your employees when they are behind the wheel. Participate in the second annual Road Safety At Work Week - March 7-11, 2016.

**CONFIDENTIALITY DISCLAIMER**

The information contained in this transmission may contain privileged and confidential information of WorkSafeBC - the Workers' Compensation Board. It is intended for review only by the person(s) named above. Dissemination, distribution or duplication of this communication is strictly prohibited by all recipients unless expressly authorized otherwise. If you are not the intended recipient, please contact the sender by reply email and destroy all copies of the original message. Thank you.

# MOVEMENT DOCUMENT / MANIFEST DOCUMENT DE MOUVEMENT / MANIFESTE

This Movement document/manifest conforms to all federal and provincial transport and environmental legislation. Ce document de mouvement/manifeste est conforme aux législations fédérale et provinciale sur l'environnement et le transport.

BK80980-0

Movement Document / Manifest Reference No.  
N° de référence du document de mouvement/manifeste

|  |  |   |  |   |  |
|--|--|---|--|---|--|
| <b>A Generator / consignor / Producteur / expéditeur</b><br>Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial: <b>N/A</b><br>Company name / Nom de l'entreprise: <b>DRY ISLAND RESTORATIONS</b><br>City / Ville: <b>DRY ISLAND RESTORATIONS</b><br>Mailing address / Adresse postale: <b>1013 OLIVIER DRIVE PORT HURDY B.C.</b><br>Postal code / Code postal: <b>V0N 2P0</b><br>E-mail / Courriel électronique: <b>dryislandrestorations@telus.net</b><br>Tel. No. / N° de tél.: <b>250-956-3635</b><br>Shipping site address / Adresse du lieu de l'expédition: <b>4105 ST AS EIGHT SCHOOL</b><br>City / Ville: <b>SOULTVA BC</b><br>Postal code / Code postal: <b>V0N 3E0</b> |  | <b>B Carrier / transporteur</b><br>Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial: <b>L71282</b><br>Company name / Nom de l'entreprise: <b>FOX'S DISPOSAL SERVICES LTD</b><br>City / Ville: <b>5990 SPOON RD PORT HURDY B.C.</b><br>Mailing address / Adresse postale: <b>5990 SPOON RD PORT HURDY B.C.</b><br>Postal code / Code postal: <b>V0N 2P0</b><br>E-mail / Courriel électronique: <b>foxs@foxsdisposal.com</b><br>Tel. No. / N° de tél.: <b>( ) ( )</b>   |  | <b>C Receiver / consignee / Réceptionnaire / destinataire</b><br>Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial: <b>( ) ( )</b><br>Company name / Nom de l'entreprise: <b>RDMW-7 mile landfill</b><br>City / Ville: <b>Box 729-2094 McNeill Road</b><br>Mailing address / Adresse postale: <b>Box 729-2094 McNeill Road</b><br>Postal code / Code postal: <b>V0N 2P0</b><br>E-mail / Courriel électronique: <b>Box McNeill</b><br>Tel. No. / N° de tél.: <b>250-956-3161</b><br>Receiving site address / Adresse du lieu de destination: <b>7000 Island Highway</b><br>City / Ville: <b>BC</b><br>Postal code / Code postal: <b>( ) ( )</b> |  |
| <b>Intended Receiver / consignee / Réceptionnaire / destinataire prévu</b><br>Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial: <b>OF MOUNT</b><br>City / Ville: <b>REGIONAL DISTRICT WASHINGTON</b><br>Mailing address / Adresse postale: <b>BCG06303</b><br>Postal code / Code postal: <b>( ) ( )</b><br>E-mail / Courriel électronique: <b>( ) ( )</b><br>Tel. No. / N° de tél.: <b>( ) ( )</b><br>Receiving site address / Adresse du lieu de destination: <b>1000 ISLAND HWY</b><br>City / Ville: <b>PORT McNEILL BC</b><br>Postal code / Code postal: <b>V0N 2P0</b>   |  | <b>Carrier Certification / Certifier that I have received waste or recyclable material from the generator/consignor for delivery to the receiver/consignee as set out in Part A and that the information contained in Part B is complete and correct.</b><br>Attestation du transporteur / J'atteste avoir reçu les déchets ou matériaux recyclables du producteur/expéditeur en vue de leur livraison au réceptionnaire / destinataire, tels qu'ils figurent à la partie A et que les renseignements fournis à la partie B sont exacts et complets.<br>Name of authorized person (print) / Nom de l'agent autorisé (caractères d'imprimerie): <b>KERRY WAISH</b><br>Signature: <b>(Signature)</b><br>Year / Année: <b>15</b> Month / Mois: <b>09</b> Day / Jour: <b>20</b> |  | <b>Generator / consignor certification / Certifier that the information contained in Part A is correct and complete.</b><br>Attestation du producteur / expéditeur / J'atteste que tous les renseignements à la partie A sont exacts et complets.<br>Name of authorized person (print) / Nom de l'agent autorisé (caractères d'imprimerie): <b>A.KU-SPARCAUX</b><br>Signature: <b>(Signature)</b><br>Year / Année: <b>15</b> Month / Mois: <b>09</b> Day / Jour: <b>20</b>  |  |
| <b>Class / Classes / Sub. classes / Sub. classes</b><br>1 <b>ASBESTOS</b><br>2 <b>( )</b><br>3 <b>( )</b><br>4 <b>( )</b><br>5 <b>( )</b><br>6 <b>( )</b><br>7 <b>( )</b><br>8 <b>( )</b><br>9 <b>( )</b><br>10 <b>( )</b><br>11 <b>( )</b><br>12 <b>( )</b><br>13 <b>( )</b><br>14 <b>( )</b><br>15 <b>( )</b><br>16 <b>( )</b><br>17 <b>( )</b><br>18 <b>( )</b><br>19 <b>( )</b><br>20 <b>( )</b>   |  | <b>Quantity received / Quantité reçue</b><br>Units / Unités: <b>610 kg</b><br>Comments / Commentaires: <b>( )</b><br>Handling Code / Code de manutention: <b>6</b><br>Shipment / Envoi: <b>( )</b><br>Refused / Refusé: <b>( )</b><br>Accepted / Accepté: <b>( )</b><br>Discont. / Veh. Cont. / Veh. Cont.: <b>( )</b>  |  | <b>Date received / Date de réception</b><br>Year / Année: <b>15</b> Month / Mois: <b>09</b> Day / Jour: <b>20</b> Time / Heure: <b>2:36</b> P.M.<br>Registration No. / Provincial ID No. / N° d'immatriculation / d'id. provincial: <b>( ) ( )</b>  |  |
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# Tsolum & Tsable Environmental Ltd.

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environmental + materials testing

August 31, 2015

TTE Project Number: Z0004-016.02

DryIsland Restorations  
#4-311 Hemlock Street  
Port McNeill, BC V0N 2R0

Attention: Mr. Allan Kleparchuck

Reference: **Asbestos Clearance Letter**  
**A J Elliot Elementary School, 120 4<sup>th</sup> Street, Sointula, BC**

Tsolum & Tsable Environmental Ltd. (TTE) was engaged by Allan Kleparchuck of Dry Island Restorations (the Client) to produce an Asbestos Clearance Letter for the completed asbestos abatement work at the above referenced address.

## 1.0 Scope of Work

The building is a municipal school where asbestos abatement was undertaken in order to prepare the structure for a renovation. TTE reviewed video footage and photographic evidence on August 30<sup>th</sup>, 2015 taken by Mr. Kleparchuck on August 12<sup>th</sup>, 2015 to visually inspect the abatement of ACM. Analysis for asbestos content in the affected area concluded that the matrix of the cement board in the boys & girls washrooms contained 60-65% asbestos (chrysotile). Proposed work procedures included removing all AC cement board from these rooms.

A visual inspection confirmed that all cement board has been removed, and the affected areas effectively cleaned, as per the recommendations in the Risk Assessment for the above referenced address completed by TTE on July 30<sup>th</sup>, 2015 (Project Ref: Z0004-016.01, Risk Assessment, Section 4.0).

Air clearance sampling was not required or conducted as asbestos containing materials were removed using 'low/moderate risk' procedures.

In summary, this confirms Asbestos contaminated material included in the Risk Assessment A0004-016.01 has been removed from the subject site.

# Tsolum & Tsable Environmental Ltd.

environmental + materials testing

July 31, 2015

TTE Project Number: Z0004-016

DryIsland Restorations  
#4-311 Hemlock Street  
Port McNeill, BC V0N 2R0

Attention: Mr. Allan Kleparchuck

Reference: **Asbestos Risk Assessment**  
**A J Elliot Elementary School, 120 4<sup>th</sup> Street, Sointula, BC**

## 1.0 Introduction

Tsolum & Tsable Environmental Ltd. (TTE) was retained by DryIsland Restorations (the Client) to conduct a Risk Assessment for the proposed asbestos abatement work at the above referenced address. This asbestos risk assessment was completed in accordance with section 6.6 of the Occupational Health and Safety Regulation (BC Reg. 296/7).

## 2.0 Site Description

The building is a public elementary school where asbestos abatement will take place. Proposed renovation involves removing asbestos containing (AC) wall board (WB) from two bathrooms.

## 3.0 Asbestos

One sample of suspected asbestos containing material (ACM) was collected by DryIsland and submitted to the hygiene lab at TTE for asbestos analysis. Sample analysis concluded that the wall board in the boys and girls washrooms contain 60-65% chrysotile asbestos. The approximate affected area of AC WB to be removed is 90± linear feet. Wall board is in 4 to 8 foot sections and is held onto the wall with metal trim. The boards do not appear to be fastened to the wall with screws or adhesive; however, there are a few screws from fixtures that will have to be removed. Affected area(s) and material(s) is summarized below.

| ID     | Material   | Location  | Quantity            |
|--------|------------|-----------|---------------------|
| MISC-1 | Wall Board | Bathrooms | 90± linear ft total |

The certificate of analysis is attached to this report.

# Tsolum & Tsable Environmental Ltd.

environmental • materials testing

July 31, 2015

TTE Project Number: Z0004-016

DryIsland Restorations  
#4-311 Hemlock Street  
Port McNeill, BC V0N 2R0

**Attention:** Mr. Allan Kleparchuck

**Reference:** Asbestos Safe Work Procedures  
A J Elliot Elementary School, 120 4<sup>th</sup> Street, Sointula, BC

## 1.0 Introduction

Tsolum and Tsable Environmental Ltd. (TTE) was engaged by DryIsland Restorations (the Client) to produce Safe Work Procedures for proposed asbestos abatement work at the aforementioned address. These safe work procedures are completed in accordance with Sections 6.3 to 6.32 of the BC Occupational Health and Safety Regulations (BC Reg 297/96) (OHSR, the Regulation).

## 2.0 Site Description

The building is a public elementary school where asbestos abatement will be under taken.

### 2.1 Scope of Work

Sample analysis was conducted by the hygiene lab at TTE and it was determined that the wall board in the two bathrooms contain 60-65% asbestos (chrysotile). The wall board was found to be secured to the wall with metal trim. Wall boards are 3.75 feet high by 4 to 8 feet long. Scope of work involves removing all metal trim and removing the wall board intact. Affected area(s) and material(s) is summarized below.

| ID     | Material   | Location                 | Quantity      |
|--------|------------|--------------------------|---------------|
| MISC-1 | Wall Board | Boys and Girls Bathrooms | 90± linear ft |

### 2.2 Risk Assessment

A risk assessment completed by TTE concluded that the risk level for the proposed work is **Modified-Low Risk** (based on these procedures).

800A 8<sup>th</sup> Street, Courtenay, BC V9N 1N8 • Tel (250) 871-8638 • Fax (250) 871-8639

[www.tsolum.com](http://www.tsolum.com)

### **3.0 Instruction and training**

Before starting work, all workers and supervisors must be properly trained. Training is required on matters including:

- the hazards of asbestos,
- the means of identifying suspect asbestos-containing material at the worksite,
- the site specific work procedures to be followed,
- the correct use of the required personal protective equipment, and operation of the required engineering controls,
- the purpose and significance of any required health monitoring, and
- the safe handling, use, and disposal of any substances (such as chemicals) used in working with asbestos. Workers must be provided with material safety data sheets (MSDSs) for these substances.

DryIsland must document training and instruction and ensure effective supervision at all worksites.

### **4.0 Containment**

1. Post signs at the boundaries of the designated work area indicating asbestos work is in progress, the hazards, and the precautions required for entering the work area. Entry must be restricted into the designated work area to authorized persons who are adequately protected against the level of risk within the designated work area.
2. Ensure that windows, doorways, HVAC vents, and all other openings are adequately sealed off with poly sheeting and tape to prevent the release of asbestos fibre into unaffected areas.
3. Cordon off work area with fences, tape, barriers, or similar structures. Outline a designated decontamination area and supply a wash bucket with rags.
4. Shut down and lock out the air heating and ventilation system to the containment area, and seal the ducts (including outside duct openings) with poly sheeting.
5. Clean and completely cover or enclose with poly sheeting all non-removable fixtures. Clean all fixtures and equipment that can be reasonably removed by damp-wiping or using a HEPA vacuum, and remove them from the containment area. Ensure that the immediate work area is cleared of objects, materials and equipment other than that required to do the work.
6. Use power sources with ground fault circuit interrupters (GFCIs) or equivalent protection against electrical shock for all electrical equipment operated inside the containment. As required, physically lock out all existing electrical circuits or lighting to prevent electric shock or unintentional start-up of electrical equipment inside the containment.
7. Place one HEPA Vacuum inside contaminated area to clean off suits before exiting work area and to vacuum poly bags before transferring.
8. Inspect the containment isolating the asbestos work area at least daily. The containment must be inspected during every work shift for gaps, leaks, or breaks. Correct any defects immediately.

#### 4.1 Filter testing

The effectiveness of HEPA filters must be assessed by DOP (dioctyl phthalate) testing or similar means at least annually, after a HEPA filter is replaced in a vacuum cleaner or ventilation system, and before use in high risk work activity.

Where the HEPA ventilation unit(s) are moved or transported in a manner that could compromise the integrity of the HEPA filter, the units should be tested in situ prior to any disturbance of asbestos materials. The methods used for onsite testing should conform to the HEPA filter leak test requirements of *National Sanitation Foundation (NSF) Standard 49-2002, Class II (Laminar Flow) Biohazard Cabinetry*. It is recommended that the following information be clearly posted on HEPA filters meeting the test criteria:

- Testing agency
- Name of the tester
- Date of testing
- Results of the test

It is also required to maintain all HEPA filters in ventilation systems and vacuum cleaners in accordance with manufacturer's instructions, or as specified by a professional engineer, to ensure that they remain effective.

#### 4.2 Control of Asbestos Fibres and Dust

1. Place warning signs at all access points into the permanent enclosure. The signs must warn of the danger from asbestos-containing materials and should identify appropriate precautions.
2. Ensure that any permanent enclosure of asbestos-containing materials is effectively airtight. Do not locate electrical, plumbing, or ventilation services inside a permanent asbestos enclosure.
3. Before starting work where exposed friable asbestos-containing material is present or asbestos-containing material has been handled, remove all asbestos dust from contaminated work surfaces with a damp cloth or similar material, or with a vacuum cleaner equipped with a HEPA-filtered exhaust.
4. Work surfaces in the work area must be kept as free as practicable from accumulations of asbestos dust.
5. Work surfaces in a designated work area must, with due regard for the level of risk, be covered with plastic sheets, tarpaulins or similar materials to help control the spread of asbestos-containing material.
6. Never remove dry materials containing friable asbestos without prior approval from WorkSafeBC.
7. Saturate asbestos-containing materials with water before handling or removing them. Surfactants (wetting agents) must be used with the water to help thoroughly wet asbestos-containing materials.
8. Do not use dry-sweeping to clean up asbestos-containing materials. Never use compressed air for any cleaning purposes. Do not pressure spray to remove asbestos.

- Procedures such as sanding of asbestos-contaminated flooring and similar surfaces should be avoided where possible. Any sanding is considered to be high risk and requires a corresponding high level of control.
9. Controlled manual procedures (hand tools), or use of power tools with HEPA-filtered local exhaust ventilation should be used.
  10. Control water streams and application of sealants or encapsulants to prevent excessive fibre generation. Use airless or low-pressure application systems. Pressure sprayers must not be used to remove or wet down asbestos-containing materials.
  11. When cleaning up small amounts of asbestos-containing materials, use only HEPA vacuums, or wet-mop or wipe the materials. Gross amounts of asbestos materials inside an asbestos containment can be shoveled into bags.
  12. Use water to continually mist the air near workers who are removing asbestos or cleaning up waste materials.
  13. When repairing asbestos-containing materials:
    - a. Disturb the least possible amount of the materials.
    - b. Seal exposed friable ends or edges that have resulted from repair or maintenance procedures before removing the work containment.
    - c. Wash any surfaces that will remain exposed after repair work is complete, then vacuum and treat the surfaces with an effective sealant or glue.
  14. After removing asbestos-containing materials, wash or vacuum exposed surfaces and treat with a sealant or glue designed to seal invisible residual fibres to the substrate.
  15. If asbestos is encapsulated, test the encapsulated-asbestos materials to ensure that the encapsulant has penetrated the materials and that the encapsulant has not disturbed the bond between the friable asbestos materials and their supporting surface.
  16. Identify encapsulated asbestos materials. Identification must indicate both the dangers and the precautions to be taken while working on or near the materials.
  17. Complete a final decontamination, including washing down and vacuuming the containment, to remove all visible signs of asbestos contamination from the containment and the equipment. Complete this decontamination before sealing the surfaces from which asbestos has been removed.
  18. Complete a final visual inspection of the entire containment.

## **5.0 Personal Protective Equipment (PPE)**

### **5.1 Protective Clothing**

All workers should wear protective clothing that:

- Is made of a material that resists penetration by asbestos fibres. Clothing must be impervious to penetration by asbestos fibres if workers are permitted to wear street clothing underneath
- Covers the body and fits snugly at the neck, wrists, and ankles
- Covers the head
- Covers the feet (laceless rubber boots are strongly recommended)
- Can be immediately repaired or replaced if torn

The use of disposable protective clothing is recommended.

Before re-use, protective clothing contaminated with asbestos must be cleaned with a vacuum cleaner equipped with a HEPA-filtered exhaust, and placed in a water-soluble plastic bag, which is sealed and labelled before being sent to an acceptable laundry facility.

Workers who launder clothing contaminated with asbestos must be informed of the hazards of asbestos and the precautions required for handling the clothing.

Under section 5.82(1)(b) of the *OHS Regulation*, the employer is responsible for laundering protective clothing contaminated with asbestos.

Due to the tight-fitting, impervious nature of protective clothing, workers may be at a high risk of experiencing heat stress and resulting heat-related disorders when working in hot, confined areas where there is not a lot of air movement.

The risk of worker exposure to conditions that exceed the heat action levels must be assessed. If the risk assessment indicates the possibility of worker exposure to unacceptable heat action levels, an exposure control plan must be implemented. Workers must know how to recognize the signs and symptoms of heat-related disorders and how to prevent them.

## **5.2 Respiratory protection**

1. Workers must be clean shaven.
2. Workers must wear (at a minimum) a half mask APR fitted with a P100 (HEPA) filter. A single use respirator must not be used for protection against asbestos. A full face PAPR may also be used.
3. Workers must be trained in proper use and care of respirators.
4. Workers must be fit tested when first fitted with a respirator, and once a year thereafter.
5. An effective respirator program must be in place.
6. Using one of the following procedures, workers must check the operation and fit of respirators (a fit check) before each use.

### **Powered air-purifying respirators (PAPRs)**

1. Install a new battery in the blower unit and remove the blower from the facepiece.
2. Test the battery using a PAPR flow tester to ensure an adequate flow of air, in accordance with the manufacturers' specifications.
3. Install filters in the PAPR unit and retest it on the flow tester to ensure that the filters are not plugged. Dispose of the filters as asbestos waste if the flow tester indicates inadequate air flow or if the cartridges become wet. Reattach the blower to the facepiece.
4. Put on the facepiece and adjust the straps to ensure a proper fit.
5. Switch on the PAPR and hold the palm of one hand over one facepiece exhaust port. With the other hand, feel the release of air from the other exhaust port. If no air is released, take a deep breath and blow sharply into the facepiece. This should free the

stuck diaphragm in the exhaust port and allow air to be released. Do this step for both exhaust ports.

6. For a loose-fitting facepiece, or hood or helmet facepiece PAPRs, check the fit in accordance with the manufacturer's instructions.

#### Non-powered air-purifying respirators (APRs)

1. Check the fit of the APR using one of the following methods:
  - a. Block the inhalation valves by placing your hands over the filters and inhaling. If the respirator is sealed correctly, cutting off the air supply will cause the facepiece to collapse; or
  - b. Block the exhalation valve and blow into the respirator. If the respirator is sealed correctly, the facepiece will bulge.
2. If the facepiece does not collapse or bulge, either it is not sealed correctly or the valves are leaking. Correct the problem and recheck.

### 5.3 Task Specific Steps

#### Removal of AC Wall Board

| Step  | Equipment  | Hazards                                    | Action                                 |
|---|--|--|--|
| 1. Thoroughly moisten wall board  | Pump up sprayer, amended water                       | Electrical shock                           | P/APR, Tyvek suit, gloves, in-line GFI |
| 2. Wet any screws holding fixtures  | Pump up sprayer, amended water                       | Electrical shock                           | P/APR, Tyvek suit, gloves, in-line GFI |
| 3. Carefully back of screws while wetting screw and hole                      | Pump up sprayer, amended water, screwdriver          | aerosolized fibres, electrical shock       | P/APR, Tyvek suit, gloves, in-line GFI |
| 4. HEPA Vac hole and wall and floor around hole. Encapsulate hole as required | HEPA-Vac, spray bottle, glue                         | aerosolized fibres, electrical shock       | P/APR, Tyvek suit, gloves, in-line GFI |
| 5. Remove metal trim holding wall board up                                    | Screwdriver  | aerosolized fibres, cuts                   | P/APR, Tyvek suit, gloves, in-line GFI |
| 7. Wrap up and securely tape sheets of wallboard                              | 6mil poly, tape                                      | aerosolized fibres, electrical shock       | P/APR, Tyvek suit, gloves, in-line GFI |
| 8. Wet wipe and double wrap wall board sections for waste transfer            | Bucket, rags, water with surfactant, 6 ml poly, tape | aerosolized fibres, electrical shock, cuts | P/APR, Tyvek suit, gloves, in-line GFI |

|   |  |  |  |
|---|--|--|--|
| 9. Clean area of debris (HEPA Vac and/or wet sweep) | HEPA Vac, rags, bucket with surfactant | Cuts, aerosolized fibres, Electrical shock | P/APR, Tyvek suit, gloves, In-line GFI |
| 10. Wet wipe area                                   | Water with surfactant, bucket, rag     | Slivers, electrical shock                  | P/APR, Tyvek suit, gloves, in-line GFI |
| 11. Encapsulate as required                         | Spray bottle, glue                     | aerosolized fibres, electrical shock       | P/APR, Tyvek suit, gloves, in-line GFI |

## 6.0 Decontamination

### 6.1 Entering the contaminated work area

1. Before entering the Asbestos Work Area, remove all excess street clothes and personal belongings, leave them in the designated storage area, and change into protective clothing (disposable coveralls).
2. Put on an appropriate respirator and ensure that it fits and works properly.
3. Finish putting on any other PPE required for the work, such as footwear or safety headgear.
4. Enter the contaminated work area to perform the work activities.

Note: Protective clothing worn throughout the job may be stored and put on in the personnel transfer area, as long as acceptable laundering facilities exist and appropriate time intervals for cleaning protective work clothing are established.

### 6.2 Leaving the contaminated work area

1. Before leaving the Asbestos Work Area, remove all gross asbestos materials using wet wipe-down procedures or a HEPA vacuum.
2. Remove all protective clothing and equipment except the respirator. Place disposable protective clothing and any waste materials in poly bags for disposal.
3. Proceed to the designated wash station and while wearing the respirator thoroughly rinse the respirator face piece and its harness, remove the respirator and finish washing. If the respirator filters become wet, they should be discarded and replaced.
4. Enter the designated personnel storage area and dress in street clothes. Thoroughly clean and disinfect the respirator, then store it in the clean room until its next use.

Note: Wet filters are not normally reused (see the respirator manufacturer's instructions). Filters may be disposed of in the work area or taped and taken out of the work area for disposal.

5. Keep hand tools and supplies in the equipment holding area. Use this area as well when transferring asbestos waste containers or any equipment that has been decontaminated to the waste transfer room.

### 6.3 Site Decontamination

1. During the work, clean up dust and waste (wetted if possible) using a HEPA vacuum or by wet-sweeping or mopping. Do not use pressure spraying equipment of any type to remove asbestos-containing materials.

Where removal involves wet methods, it is good practice to HEPA-vacuum the surface after it has dried.

2. All decontamination must take place within the restricted zone.
3. Use a certified HEPA-filtered vacuum cleaner or wet methods (washcloths, mops, etc.) to remove all visible asbestos-containing materials in the work area.
4. Wet-wipe all equipment and PPE. Wiping rags should only be used once. If using a bucket to wet the rags, wet the rags before wiping, and do not re-wet the rags.
5. Damp-wipe the work area.
6. Place waste material (including wipes) in a designated waste bag.
7. Carefully roll up any polyethylene drop sheets and place them in a designated waste bag.
8. In a clean area, remove and discard disposable coveralls (and booties) in the designated waste bag.
9. Use a wash bucket and wet cloths to wipe any potentially contaminated exposed skin area (forehead, cheeks, etc.).
10. Seal the waste bag, wet-wipe the outside of it, and then place it in a second bag. Label the outer bag to identify its contents, hazards, and the necessary precautions for handling the waste materials. All asbestos waste must be disposed of in a duly authorized hazardous waste landfill.
11. Remove and clean respirators. Use duct tape to cover HEPA cartridge inlets.
12. Wash face, then hands.

### 6.4 Removal and Clean-up of Asbestos Waste

Waste must be removed:

- While work is in progress, at intervals necessary to eliminate or minimize the risk of exposure
- At the end of each work shift
- At the completion of work involving asbestos

The following methods are most appropriate for the safe removal of asbestos dust and debris:

- Use a HEPA vacuum.
- Wipe surfaces with a damp cloth or sponge to remove residual amounts of asbestos dust and debris.
- Wet-sweep or wet-mop to remove larger amounts of asbestos dust and debris.
- Use a shovel or similar tool to place larger amounts of dampened asbestos debris into a sealed container or doubled 6 mil asbestos bags.

Records of corrective actions to control asbestos fibre release, training and instruction of workers, written work procedures and written notification of the Board must be maintained for at least 3 years,

Asbestos survey results should be kept as long as asbestos remains in the building or structure.

Note: Despite the 10-year and 3-year time limits identified in the Regulation, employers are advised to keep all records for as long as the company exists because a WorkSafeBC officer may ask to see records at any time.

If employers cannot produce records proving, for example, that they have trained workers or conducted risk assessments in the past, they may have to retrain workers or redo risk assessments.

An exposure control plan for asbestos must be in place. The exposure control plan must be written down, and records should be kept for each component of the plan. An exposure control plan for asbestos should include medical monitoring of workers, such as annual lung function testing and periodic (every two to three years) chest X-rays for asbestos abatement workers.

To ensure adequate coordination of the overall plan, the employer must ensure that it is administered by a properly trained person.

Other documentation should include the following:

- Workplace inspections
- Health and safety meetings
- Accident investigations
- Health monitoring records

## **9.0 Emergencies**

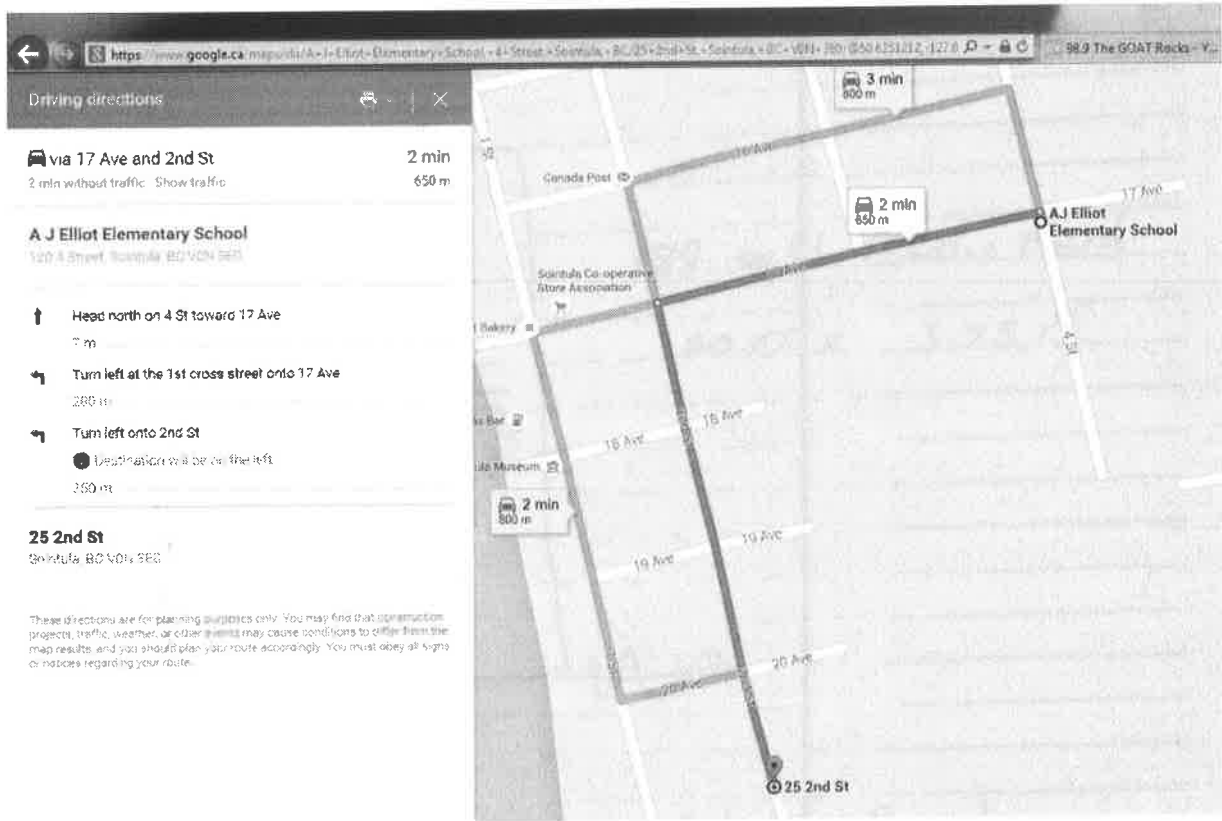
A worker must be assigned (i.e. an occupational first aid attendant) to coordinate the implementation of the emergency procedures.

As soon as a written emergency plan is developed, the following must be done:

- Conduct emergency drills to determine whether the procedures work in practice and to thoroughly familiarize workers with their roles in an actual emergency.
- Keep records of emergency drills to monitor efficiency.
- Provide each worker with a copy of the plan and provide enough training to ensure that workers clearly understand the procedures.
- Post the procedures and other relevant information (such as telephone numbers) in appropriate, prominent locations.

If a medical emergency occurs in an asbestos work area standard protective measures may be temporarily ignored if they would otherwise cause an immediate threat to the worker's life or recovery. For example, a worker's respirator may be immediately removed so that mouth-to-mouth resuscitation can be performed, or a worker's contaminated clothing may be left on if a spinal injury is suspected.

## A.2 Hospital Location Map



# **Tsolum & Tsable Environmental Ltd.**

Environmental + Materials Testing

Date: July 28, 2015

File Number: Z0004-016

DryIsland Restorations  
#4-311 Hemlock Street  
Port McNeill, BC  
V0N 2R0

Attention: Mr. Allan Kleparchuck

Reference: **Sointula School, Sointula, BC – Ladies Bathroom**  
**Bulk Asbestos Sample Analysis**

Dear Sir:

Please find attached our laboratory's results for analysis of material submitted for identification of Asbestos.

Sample examination was conducted in accordance with the NIOSH 9002 analytical method using polarized light microscopy and dispersion staining techniques. The detection limit of this method is listed as <1%.

This report relates only to material tested and any extrapolation of the results by the client is the responsibility of the client. Samples will be disposed of after one month, unless otherwise instructed by you.

If Asbestos containing materials (ACM – defined by WorkSafe BC as containing at least 0.5% Asbestos and >0% for Vermiculite insulation) are identified in this report and remediation is indicated, the requirements of the B. C. Occupational Health & Safety Regulation Part 6.0 and related Guidelines should be met. This will require completion of a Risk Assessment by a 'Qualified Person' as described in Section 6.6.4 of the Regulations.

*This report is not a Hazardous Materials Assessment (Report), as defined in Section 20.112. In addition to this report, WorkSafe BC may require Section 20.112 to be met prior to commencement of work.*

If further clarification is required, please contact the undersigned. Thank you for the opportunity to be of service to you.

Yours truly,

**TSOLUM & TSABLE ENVIRONMENTAL LTD.**



Gillian Helpard, B.Sc., CIT, GIT  
Senior Analyst  
EPA-AHERA Building Inspector #14-1007  
Email: [ghelpard@tsolum.com](mailto:ghelpard@tsolum.com)

Attachments (2): Certificate of Analysis, Chain of Custody

# **Tsolum & Tsable Environmental Ltd.**

## **Bulk Asbestos Certificate of Analysis**

Analytical Method: NIOSH 9002 Asbestos (Bulk) by PLM

**Project #:** Z0004-016  
**Client:** DryIsland Restorations  
**Site Address:** Sointula School, Sointula, BC  
**PO #:** Ladies Bathroom

**Sampled By:** DryIsland (AK)  
**Date Sampled:** 23 July 2015  
**Analyzed By:** GH  
**Date Analyzed:** 27 July 2015

| Sample #    | Sample Description | Location        | Layer             | Layer % | Asbestos          | Other Material |
|-------------|--------------------|-----------------|-------------------|---------|-------------------|----------------|
| Z0004-016-1 | Wall Board         | Ladies Bathroom | Grey Cementitious | 100     | Chrysotile 60-65% | Non-Fibrous    |

Estimated Limit of Detection (LOD) is <1% asbestos

**Legend:**  
ND Not Detected