 THOMPSON RIVERS UNIVERSITY Occupational Health & Safety	Number: OH&S 9.25.1
	Revision Date: 10/06/2014
	SWP for drilling into textured concrete walls containing asbestos

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1. Purpose


- 1.1. To provide the safe work procedures for drilling into textured concrete walls containing asbestos parging following moderate risk procedures.

2. Scope






- 2.1. Save Work Procedures for all Facilities, Maintenance and Contractors in the safe procedures of drilling holes and removing boards from textured concrete walls containing asbestos parging.

3. Precautions

POTENTIAL HEALTH & SAFETY HAZARDS

HAZARD		TO PROTECT YOURSELF
Exposure to asbestos fibers		Wearing all the approved PPE for the task as well as using the appropriate equipment.

4. PERSONAL PROTECTIVE EQUIPMENT

	Safety glasses must be worn at all times in work area!
	Tyvek suits or other protective suits that are fiber impermeable must be worn to protect workers clothing. Suits must have hoods and elastic at legs and wrists.
	Rubber boots or booties must be worn in work area. Shoes must be fully enclosed, no open toe shoes allowed.
	Latex/Nitrile gloves must be worn at all times while working with or around asbestos
	Half mask or full mask respirators with HEPA filters must be worn when working with asbestos containing materials. Workers must be fit tested prior to performing any asbestos work, this is done through TRU Safety department

5. Objective:

- 5.1. Provide procedures for drilling into textured concrete walls containing asbestos following moderate risk work procedures

6. Responsibilities:**6.1. Supervisors**

Are responsible for ensuring that all workers have the proper personal protective equipment and respirator fit testing along with adequate training prior to carrying out this asbestos removal procedure. Supervisors are also ensure that all the appropriate paperwork and NOPA have been filed with Work Safe BC and the Asbestos Control Coordinator and TRU Health and Safety prior to commencement on work activity

5.2 Workers

Workers are to ensure that they aware of the proper asbestos procedures for drilling holes into textured concrete walls containing asbestos. As well the worker must ensure they use all the required personal protective equipment for the task and have completed fit testing.

7.

8. Required Documentation:

<u>Doc. Number</u>	<u>Doc. Title</u>
	TRU Asbestos Work Permit
	Safe Work Procedures (WorkSafeBC)
	Notice of Project Asbestos (WorkSafeBC)

9. Equipment and materials

- Personal Protective Equipment
- Vacuum cleaner equipped with HEPA filter (DOP certified within last year)
- 6 mil poly asbestos bags
- 6 mil poly drop sheets
- Duct tape
- Spray bottle with water
- Wash bucket
- Disposable clothes
- Silicone sealer

10. Moderate Risk Procedure

1. Prior to work commencing, all associated documentation must be completed and filed with Work Safe BC 24 hours prior to work proceeding. Work cannot commence until receiving OK from Work Safe BC.

2. Prior to the start of any work involving asbestos any personnel working in the immediate area will be informed of the nature of the work and that suitable precautions will be made to ensure that they are not exposed to asbestos fibers. Only workers wearing all the approved protective equipment are allowed within the work area.
3. Post warning signs and barrier tape that indicates the asbestos hazard and the requirement for protective clothing for anyone entering the exclusion zone.
4. Set up a decontamination station for the clean-up process after work has been completed.
5. Ensure all required equipment is located in work area before sealing off.
6. All required protective equipment must be worn prior to commencing work.
7. Location of holes are to be marked as to positioning
8. Place drop sheet of 6mil plastic on floor of work area.
9. Wet the wall area around the hole locations to reduce dust.
10. A Bit-buddie attachment will be connected to the vacuum and turned on. Once functional the Bit-buddie will be placed over the location of the hole, suction will hold attachment in place.
11. Using a drill with proper bit, begin drilling the hole through the Bit-buddie shield, this will suction any asbestos and silica dust created by the drilling process.
12. Proceed with process till all holes have been drilled.
13. The same procedures will be used to remove screws or fittings from walls using a screwdriver or drill.
14. Using the HEPA vacuum, clean up any residual dust or debris.
15. Wall and floor will then be sprayed down with water and wiped down with a clean wet cloth to ensure all asbestos dust has been cleaned up.
16. Any holes in walls not required will be sealed with silicone sealer.
17. Once complete, all cloths, wipes and drop sheet will be put into a clear 6mil plastic bags
18. Any tools used will be washed down and decontaminated before removal of work area.
19. All waste is placed into the 6 mil poly bags, using the vacuum to remove all air in the bag then sealed with duct tape and wipe the outside of the bag. This bag is then placed in a

second yellow poly bag with asbestos labelling, have all air removed and end sealed, folded over double and sealed again with duct tape. Bags will be wiped down with clean water prior to leaving work area.

20. Workers will then wipe down their PPE with a wipe and water before they remove their Tyvek suits, gloves, booties and place them into another poly bag and double seal the opening.
21. The hose end of the vacuum will be cleaned and sealed with duct tape to ensure no release of asbestos from the vacuum or vacuum hose.
22. Workers will now wipe down their respirator with clean water before removal. Once clean, duct tape can be placed over the canisters to prevent further contamination.
23. Workers will then wash their hands and arms thoroughly.
24. All equipment will be removed from the area.
25. All signs and barriers are taken down
- 26 All completed documentation is then submitted to the Asbestos Control Coordinator and Health and Safety Department

11. Records of procedures

- 11.1. All forms and records from the procedure must be filed through Work Safe BC and the TRU Health and Safety Department.

11.2. Verification of Understanding

- 11.2.1. TRU Health and Safety Department will maintain all records with regards to workers respirator fit testing and also ensure all workers are current in their training and respirator fit testing.
- 11.2.2. TRU Health and Safety Department will maintain all records associated with asbestos training for workers who will be working near or with asbestos containing materials

12. SUMMARY OF CHANGES

Revision #	Date	Change (include section #)	Issued By
2	10/06/2014	revision	OHS Officer