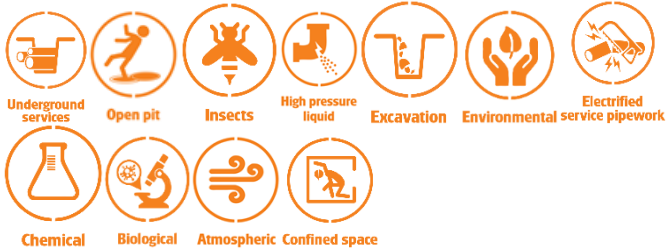


Asbestos Pipe Repair - Maintenance Procedure (any of the three waters)

Procedures for repairing any pipe or other asset in the network suspected of containing asbestos for pipe that has under 10 square metres surface area. Treat all suspect materials as if it is an Asbestos material type.

Health & Safety and Operational Information

Hazard Indicators



Personal Protection



Health and Safety Information

- WWL Health and Safety documentation/policies.
 - o HSEP-0001 - Asbestos Management Process
 - o **WWL – Water Ways – Asbestos Cement Pipes**
- Generic Traffic Management Plans or site-specific Traffic Management plan.
- Hazardous Waste
- Confined Space Entry
- Trenching
- Pressure pipe
- Worksafe Management and Removal of Asbestos

Operation's & Maintenance Documentation

- Corridor Access Requests (CAR) and WIP Permits (site specific or generic/global)
- Service plans (B4uDig)
- Design drawings
- Site plans
- Notification Calling Cards
- Trench shoring policy
- Work site fencing policy
- WWL documentation – Working with Asbestos

Customer Information (Confidential)

- Vulnerable customers (DHB supplied list)
- Priority customers (WWL)

Priority Customer Categories

- Schools and Child Care
- Commercial premises
- Hospitals
- Retirement Homes/Villages
- Correction Facilities
- Military Installations
- Oil and Gas Facilities
- Cafes, restaurants, takeaways, bakeries
- Processing industries

Emergency Procedure / Escalation

If Asbestos is suspected (as part of other works).

- Report findings to Team Leader. Only proceed with repairs if required PPE, equipment and Asbestos trained personnel are onsite.

Emergency.

- In event of service strike to utility/energy source (e.g. fuel, Gas, Power, Water etc.) report immediately to team leader
- Make "Site Safe" and isolate risks to people or property with resources at hand

Escalate if extra resources required or problems occur!

- Escalate to Team Leader and inform of the issues faced and/or expected resources required if necessary.

Additional Documentation

- **Fulton Hogan**
 - o [Asbestos Basics.](#)
 - o [KnowHow Asbestos Cement Pipes](#)
- **Wellington Water**
 - o [Water Ways Guide – Asbestos Cement Pipe](#)
 - o [Asbestos Management Process](#)
 - o [Asbestos Removal Process - <10 m²](#)
- **WorkSafe**
 - o [Management and Removal of Asbestos](#)

Asbestos Pipe Repair - Maintenance Procedure (any of the three waters)**Required Skills, Competencies (Qualifications and/or Certifications)**

- Training on Asbestos Awareness needs to be completed for non-friable asbestos work that has a surface area up to 10m² for asbestos related work.
- Non-friable asbestos work above 10 m² requires Class-B removal training (Unit Standard 29765).
- Any work with friable asbestos requires Class A removal training (Unit Standard 26766)

Asbestos Pipe Repair - Maintenance Procedure (any of the three waters)

Standard Operating Procedure

Required Equipment

Equipment and Information	Details
Fully Equipped Vehicle	Ensure vehicle, plant, equipment and materials appropriate to the day's work schedule is available
Specialist PPE	<ul style="list-style-type: none"> Disposable Gloves (new, unused). Tuck under cuffs of overalls and seal with duct tape. Disposable Overalls (new, unused). These should be Type 5 Category 3, one size too big fitted with hood and cuffs. P2 Grade Disposable Mask for short term work. Ensure correct fit of mask. Being clean shaven ensures a better respirator fit and is safer. P3 half face respirators for longer term work. Safety Footwear. Disposable anti-slip boot covers must be worn over top. Gumboots should be worn as these are easier to clean afterwards (footwear with laces should not be worn). Cuffs of overalls taped over boot covers. PPE to be disposed of as contaminated waste after use.
Specialist equipment	<ul style="list-style-type: none"> Contaminated materials waste disposal bags (200-micron plastic bags or sheeting) Asbestos bag tags for contaminated materials waste disposal bags. Disposable wet wipes. Spray bottle with water or low pressure hose Duct tape for sealing of overalls and bags or sheeting.

Prepare to do the work

Action	Action Details
Pre Start Process	Complete the Daily Pre Start Planning Planned SOP.
Compliance	Traffic Management Plan - Where required, TMP to be in place prior to work starting. TMP to be accessible on site.

Perform the work



Type	Action	Action Details
Maintenance	Commence operations	Undertake all tasks required in the Pre-Start - Planning for Reactive Maintenance.
Maintenance	Initial Excavation	Carefully excavate the area around the pipe to expose it in accordance with checklist to excavate and in strict adherence to excavations SOP. DO NOT BREAK THE PIPE.
Maintenance	Assess material	If the pipe is made of plastic, ceramic or stainless steel material it can be removed using a breaker or saw cutter using standard SOP for pipe repairs
Health & Safety	PRIORITY – Suspicion of Asbestos	If the pipe is made of concrete or fibrous materials and there is no indication of the type of material then treat as containing Asbestos. Check Plans.
Maintenance	Assess ability to remove intact	If the pipe can be removed in one whole piece, there are minimal hazards associated.
Maintenance	If pipe must be broken	If the pipe has to be broken or cut to be removed, the above PPE must be worn at all times.
Health & Safety	PRIORITY INSTRUCTION	DO NOT use power tools to remove the pipe. Power tool use is only permitted after a risk assessment has been performed and the risk of dust is well controlled. Dedicated asbestos power tools should be used and thoroughly decontaminated after. Hand Tools are always the first choice
Health & Safety	PRIORITY INSTRUCTION	Wet the pipe prior to cutting to avoid release of asbestos fibres. Use ONLY hand tools such as a chain pipe cutter or handsaw. Keep work area wet throughout cutting
Health & Safety	PRIORITY	Ensure the work area is well ventilated.

Asbestos Pipe Repair - Maintenance Procedure (any of the three waters)

Type	Action	Action Details
	INSTRUCTION	
Maintenance	Marking of the pipe section	Before removing the pipe, mark the top using a spot / strip of Dazzle.
Maintenance	SOP	Implement Mains and Connections Pipe Repair SOP. Ensure Asbestos Cement water mains or pressure mains are depressurised before undertaking maintenance activities on or around the pipe.
Pipe Sampling	Log pipe section with work order under which it was removed	The section of pipe that is removed should be labelled with the Work Order Number, Service Request Number and the date that the pipe was removed so that it can be used as a sample to determine the condition of the main.
Repair	Working with asbestos pipe	<p>Cutting of AC pipe in a dry condition using a hand or power saw is not permitted.</p> <ul style="list-style-type: none"> This generates too much dust which can be dangerous if inhaled Remove pipes in complete sections, do not smash the pipe <p>Hydro-excavation of AC pipe is not permitted.</p> <ul style="list-style-type: none"> This is forbidden by the Asbestos Regulations Water below 50 psi can be used <p>Hydro-excavation can be used near AC pipe where the risk is well managed and high-pressure water contact with the pipe is avoided Hydro-excavation can still be the safest option where there are other underground services nearby Complete the RCP/ Permit/ Risk Assessment</p>
Repair	Working with asbestos pipe	<p>Remove non-essential people Segregate the asbestos work area with fencing and warning signage Plan the work to minimise the number of cuts/disturbances of the pipes Remove AC pipes in sections, splitting at collars or sleeves Keep the pipe wet</p> <ul style="list-style-type: none"> Use a spray bottle of water or low pressure hose <p>Manually cut with hand saws</p> <ul style="list-style-type: none"> If power tools are needed, make sure a robust risk assessment is carried out, and the right tools are available. <p>DO NOT USE CONCRETE CUTTERS</p>
Repair	Working with Asbestos pipe	<p>Drilling – A conventional drill used on low RPM using the shaving foam and cup method is recommended Make sure you leave your respirator on until all other PPE items have been removed and cleaned or disposed Role the respirator in on itself so that you're not exposed to the 'dirty' side Dispose of as asbestos waste</p>
Repair	Site Breakdown	<p>Clean as you go</p> <ul style="list-style-type: none"> Use a damp cloth to wipe down tools and surfaces Use each side of the cloth once It must be disposed of as asbestos waste <p>Double bag all waste</p> <ul style="list-style-type: none"> All waste, including disposable (single-use) masks and coveralls, cloths and plastic sheets should be double-bagged in heavy-duty 200 micron plastic bags or sheeting. Twist the top of the bags tightly, fold the necks over (a 'gooseneck twist') and seal with adhesive tape so that the contents are fully enclosed. Sticker the outer bag as being Asbestos Containing Material. Dispose at approved Asbestos waste facility – check local authority <p>Look closely at the work area before leaving</p> <ul style="list-style-type: none"> There should be no visible dust <p>Remove PPE last</p> <ul style="list-style-type: none"> Make sure you leave your respirator on until all other PPE items have been removed and cleaned or disposed

Asbestos Pipe Repair - Maintenance Procedure (any of the three waters)

Type	Action	Action Details
Health & Safety	Care of contaminated waste	Do not leave asbestos waste on site overnight or uncovered while on site. If asbestos waste is to be left unattended it must be stored securely to prevent other workers or members of the public coming into contact.
Repair	Storage	The pipe and contaminated slurry/sludge is to be stored out of direct sunlight and in a safe storage area. It shall be stacked horizontally and secured against rolling.
Closure	Close out	Carry out work order closure procedures as per Reactive Maintenance - Generic Maintenance Procedures

Approved to Issue for Testing: Planner Name John Baines	Reviewed by: Health and Safety Manager (WWL) Chris Anderson	SOP Finalised Team Leader Name
Signed 	Signed 	Signed
Date 11/02/2022	Date 02/08/21	Date