

OPEN

MINUTE ITEM

ATTACHMENTS

Ordinary meeting of the
Works and Infrastructure Committee

Thursday 23 May 2019
Commencing at 9.00a.m.
Council Chamber

Civic House

110 Trafalgar Street, Nelson

TABLE OF CONTENTS	PAGE
6 Chairperson's Report	
A. A2193851 Cured-in-place Pipeline PowerPoint presentation	2

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Pipeline Rehabilitation

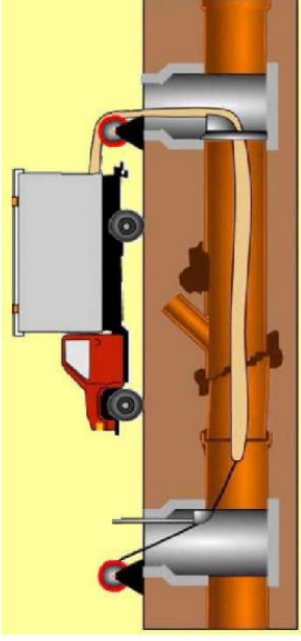
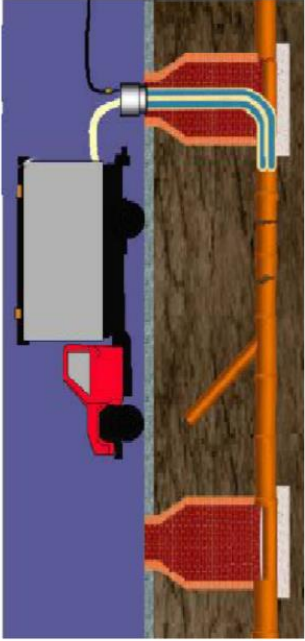
Cured-in-Place Pipe (CIPP)



What is Cured-in-Place Pipe (CIPP) ?

Cured-in-place pipe (CIPP) is a trenchless (or no-dig) pipeline rehabilitation process that involves installing a textile liner and liquid resin in an existing pipeline. The resin is cured using heat or UV light, creating a new pipe within the existing pipe.

Cured-In-Place Pipe (CIPP) Installation



- The process begins by saturating the liner with the liquid resin (referred to as the wet-out process).
- The liner is then transported to site and compressed air is used to invert the liner through the pipe, pressing the liner up against the pipe wall to take on the formation of the existing pipe.
- The liner is cured to a hard state, forming a new, seamless pipe within a pipe.

Lateral Re-Connection

- After lining of the sewer main is complete, identify lateral connection dimples from CCTV inspection.
- Cut open each live lateral using a robotic cutter (as show to the right side of this slide)
- Leave each abandoned connection closed to stop infiltration to the system.

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Lateral Connection Dimple



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Pipeline Solutions with CIPP



- Structural Renewal – Full Lining
- Structural Reinforcement – Spot Repairs
- Stop leakage – Infiltration / exfiltration
- Stop tree root intrusion
- Renewal of asset life to 50 + years

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Before

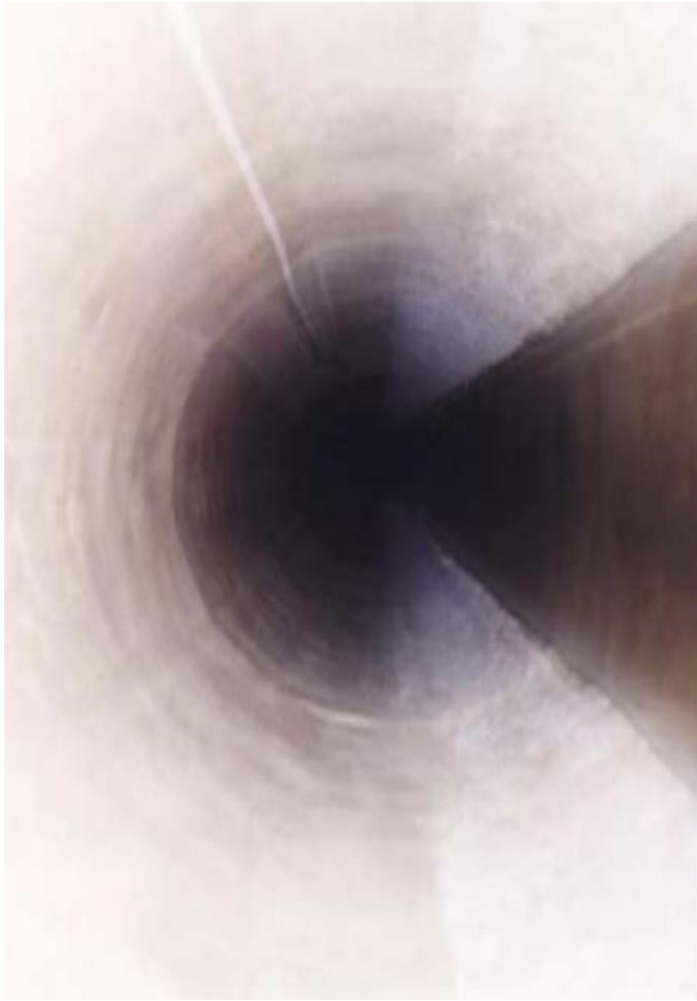


After

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Another Example of Installed CIPP

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