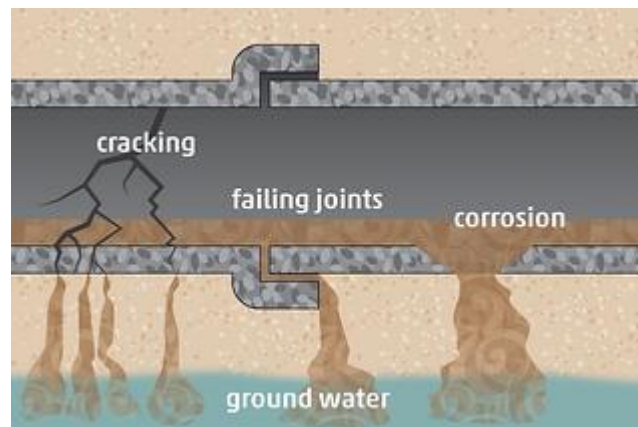


Proactive Wastewater Renewals Newmarket & Parnell Project Update

Johan Gerritsen & Isileli Aholelei
Project Manager's – Asset Upgrades &
Renewals
5th September

Background Information

- Identified by Joint Initiative Healthy Waters & WSL (Safe Networks and I&I)
 - Aging assets 1940's-60's
 - I&I and Exfiltration – reduce wastewater contamination



- Restoring both Manholes (MH) and Sewer Network
 - February 22 to late October/early November 22
 - 3.8km of network lines
 - 130 MH's

Proactive WW Renewals - Newmarket

3.8km Network Lines
130 MH's



Remediation Method Benefits

Relining – Spiral Wound Pipe

- Completed with live sewers
- Quick and Efficient
- Artificial Intelligence – CCTV Survey
- Less intrusive ie trenchless
 - Social impacts minimised
 - Sustainable - carbon savings
 - Cost savings
 - Health & Safety

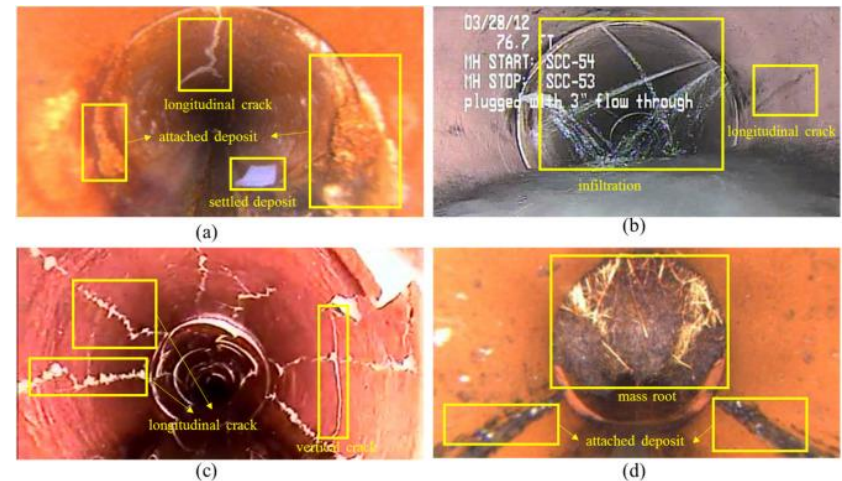


Spiral Wound – Process Video



Artificial Intelligence – CCTV Survey

- Automatically codes inspection footage identifying and classifying defects.
- WSL involved in development of software
- Less time investment
 - Automatically reviews footage.



Challenges

- Resources Constraints
 - Specialist contractor
 - Covid 19
 - Material supply
- Land Owner Approvals
- Tree Owner Approvals
- Wet Weather
 - Combined network
 - Ground conditions



Thank you

Any questions?