



Lead Source Investigation Update



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INVESTIGATION PROCESS

- Started additional sampling and monitoring
- Ongoing analysis of water quality and treatment plant data
- Installed new sample taps to ensure results are not affected by plumbing belonging to property owners
- Installed an autosampler to test the river for lead
- Reviewed many items suggested by community including:
 - Cherry Farm Landfill
 - Edinburgh St Landfill
 - Fly tips near the river
 - Lead shot in the catchment
 - Sampling or analytical error



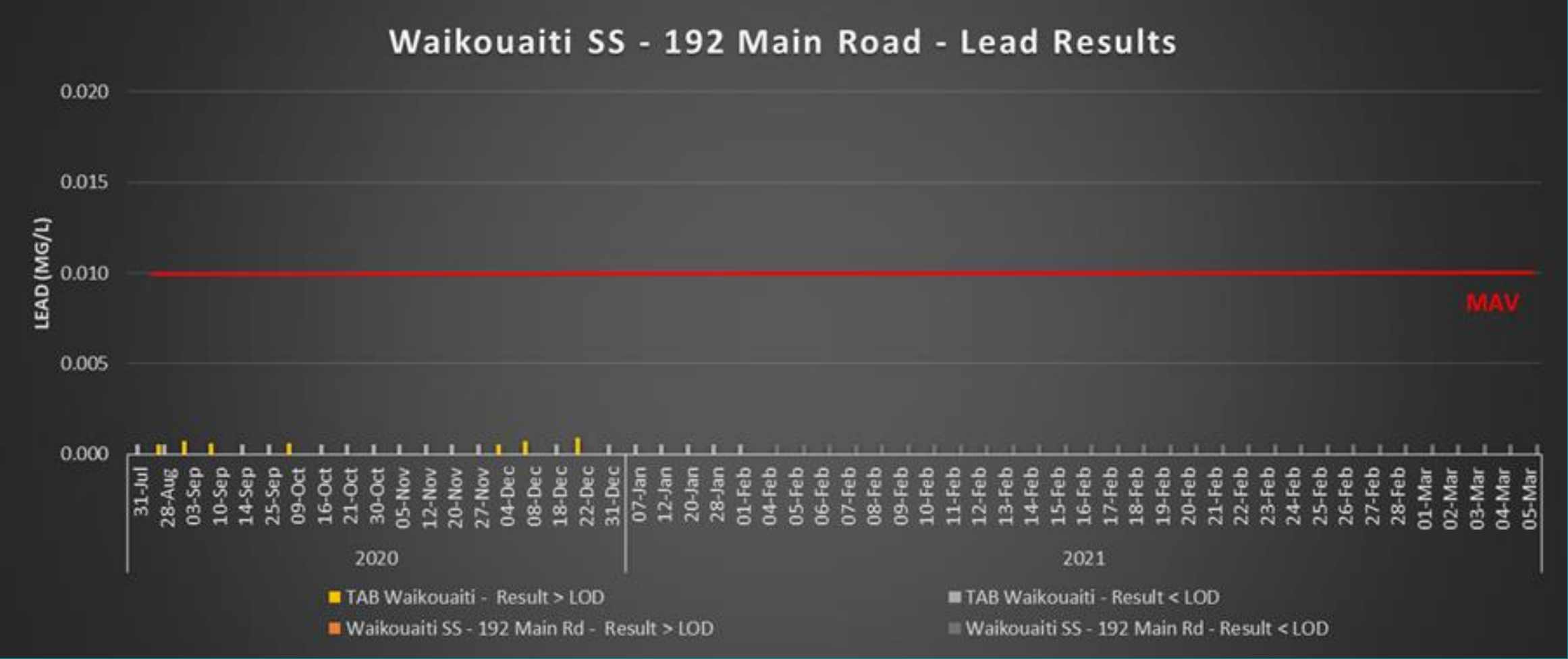
INVESTIGATION PROCESS

Catchment Risk Assessment underway by Tonkin and Taylor

- Many potential contamination sources investigated
- No evidence of sustained elevated discharges of lead within the river catchment
- A number of potential sources have been considered and some are still being investigated

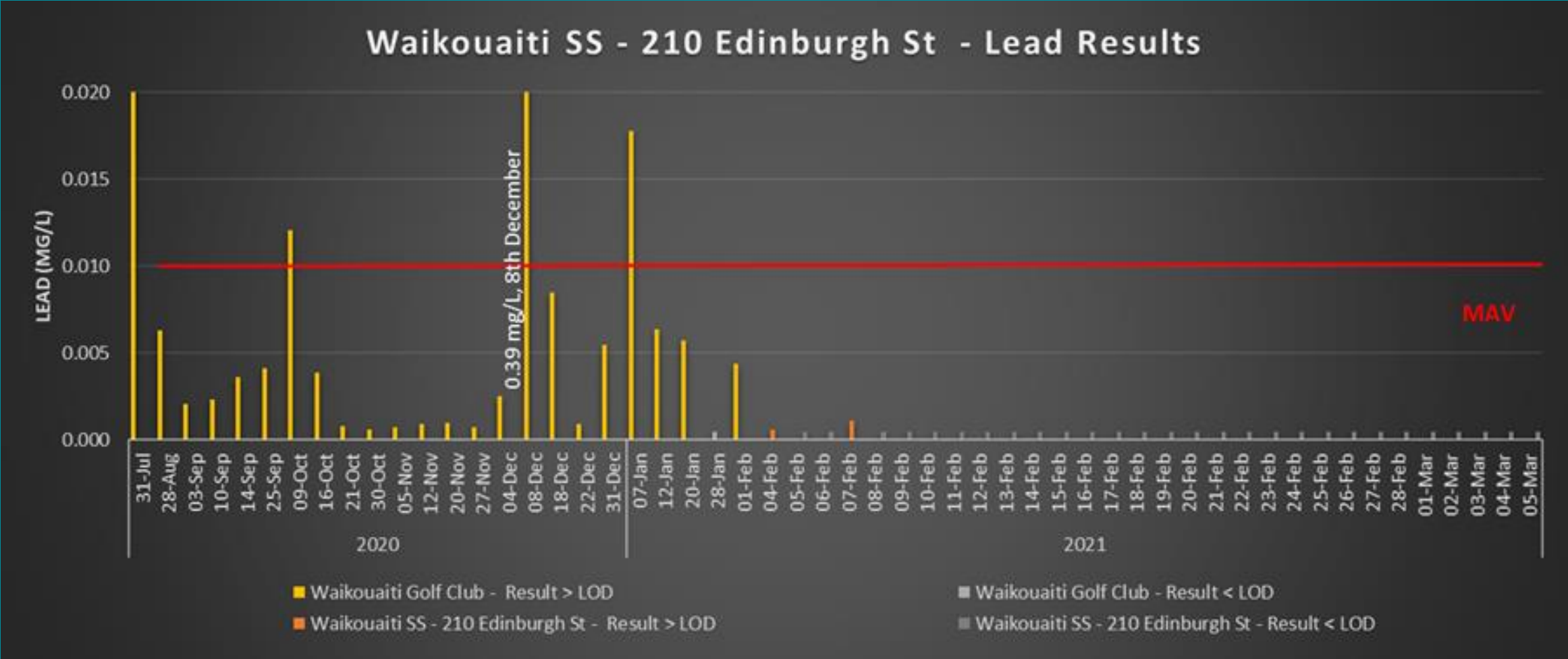


WATER TESTING



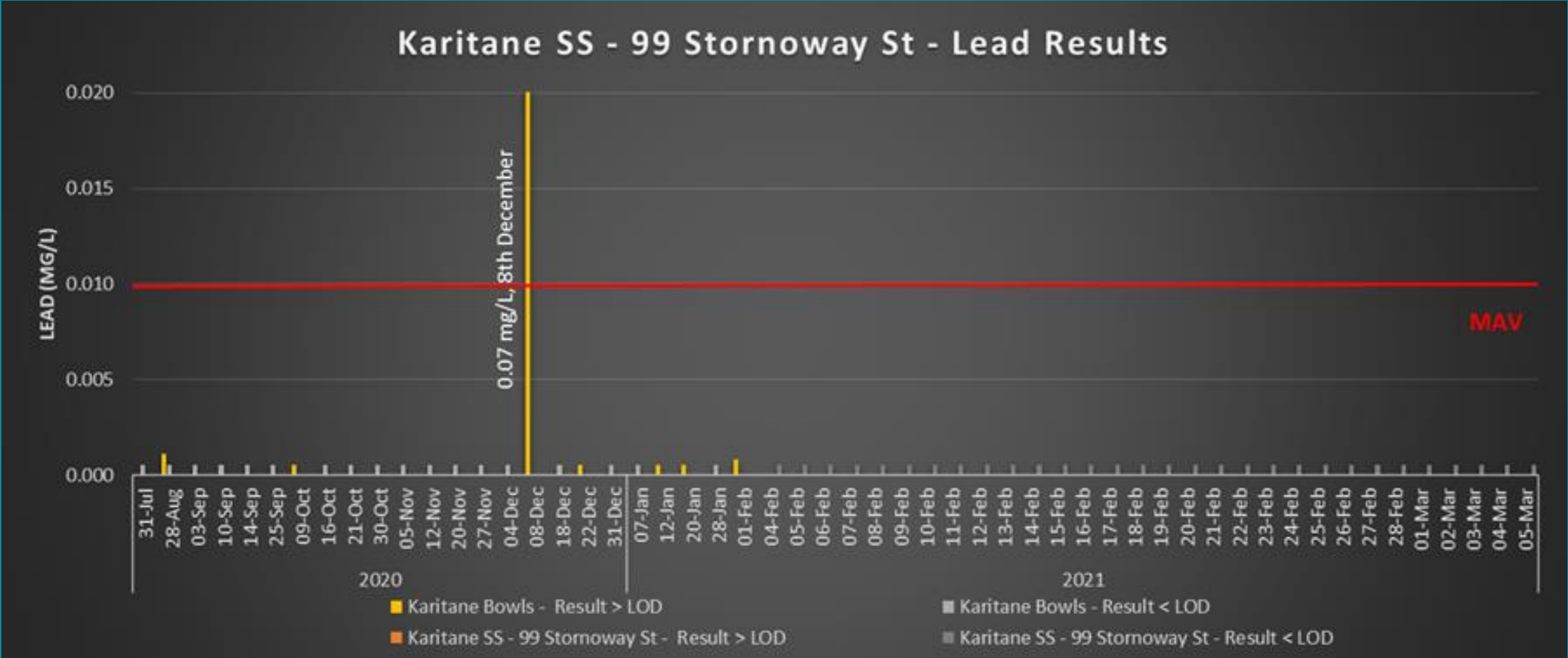


WATER TESTING



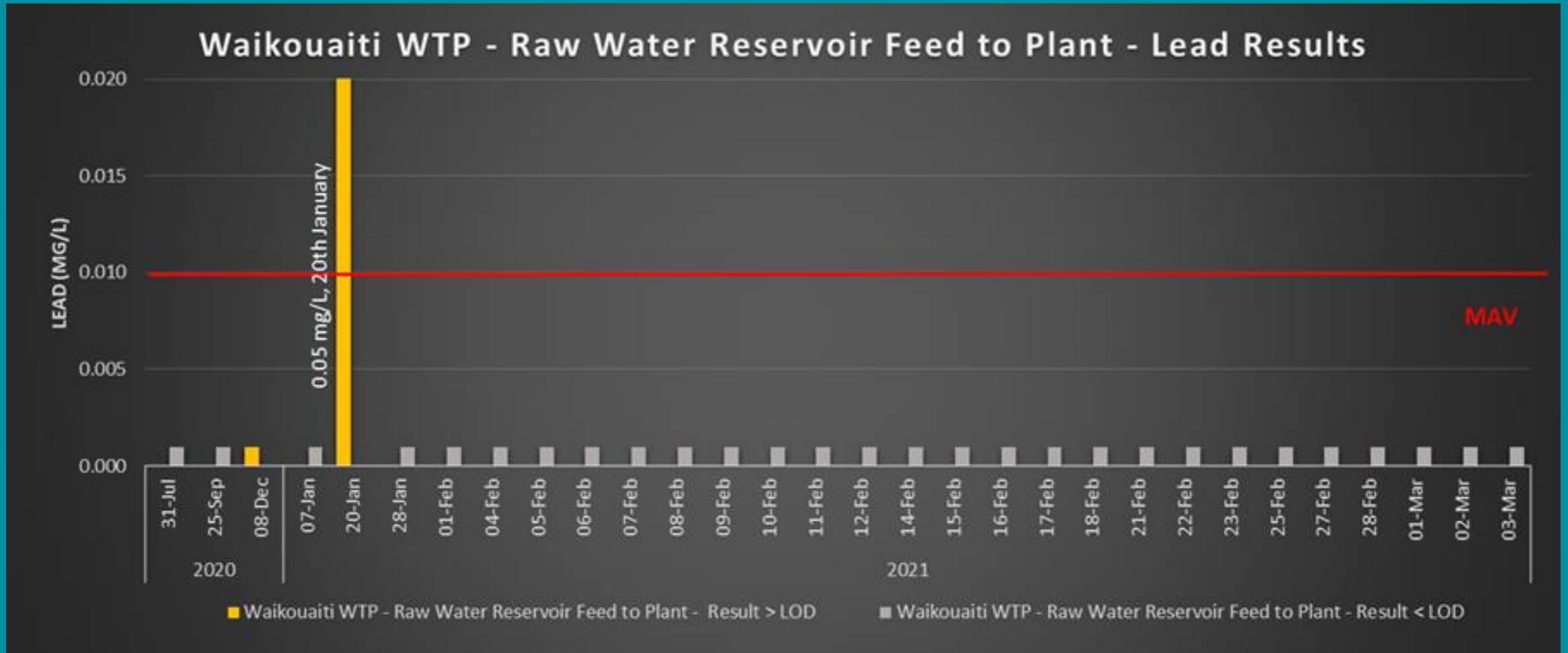


WATER TESTING





WATER TESTING





PRE AND POST FLUSH SAMPLING

- Pre flush water is the first litre of water that comes out of your tap
- Post flush water is once the tap has been running for five minutes
- **Households are encouraged to always run their taps for 30 seconds**
- Pre flush water has typically been in contact with tapware which contains lead
- Pre flush samples at some sites have returned some higher readings of lead
- Post flush sampling represents the water that arrives at your boundary from the DCC water supply
- Post flush sampling is the best indicator of the overall water quality in the network



CURRENT SITUATION

- Local liaison through community board
- Water tanks provided
- Containers provided for water collection
- Home water deliveries where needed





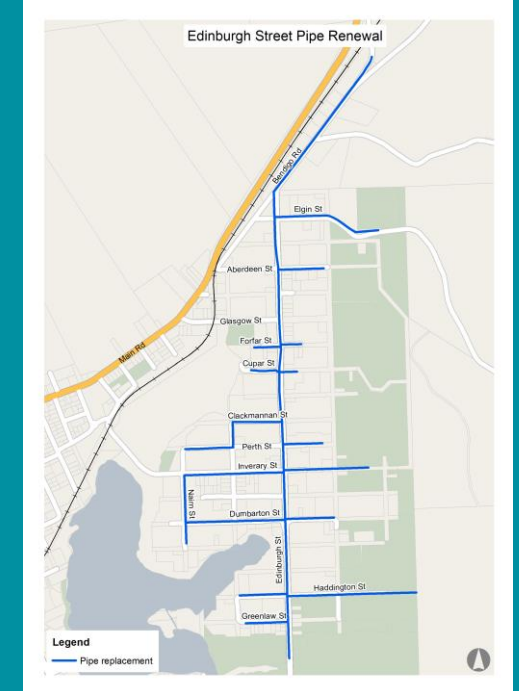
CURRENT SITUATION

- 1000 litre water tanks installed at local businesses
- Water test results communicated via DCC website
- DCC working with Public Health South, ORC, Otago University and other experts to understand why there are elevated lead readings
- Additional monitoring equipment being installed
- Presence of lead joints confirmed in older parts of network



EDINBURGH STREET PIPEWORKS

- Work commenced 15 February 2021
- Completion date estimate June 2021
- 6.5km of pipeline to be replaced
- Cost approximately \$6m
- Work is being fast tracked to eliminate pipework as possible cause of elevated lead levels





NEXT STEPS

- The source of the intermittent elevated lead levels is still not known
- Investigations are continuing
- An online lead monitor has been ordered
- Water tanks will remain on location until local supply returns
- Options to restore safe drinking water are being investigated

