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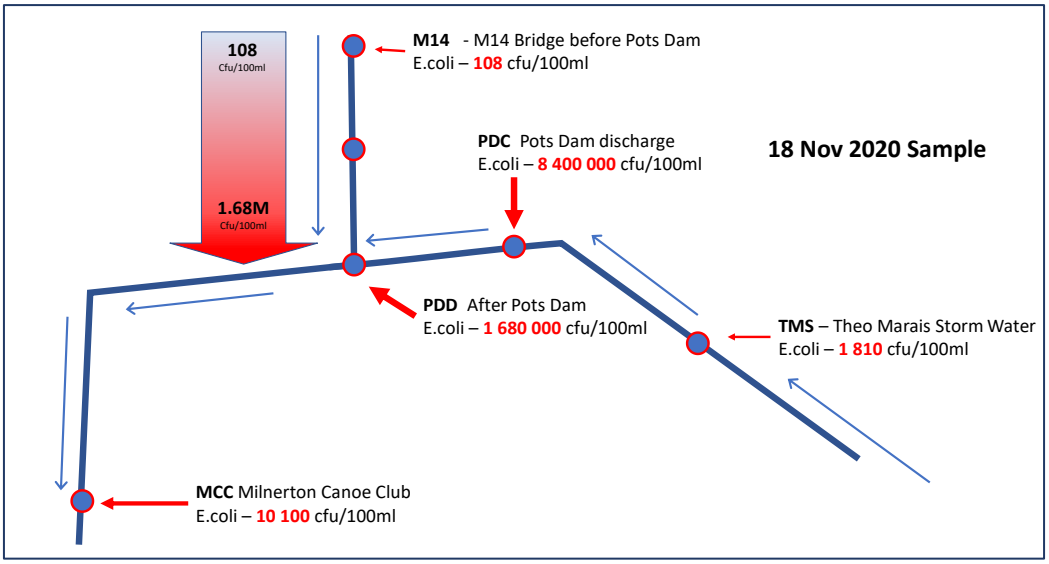
Diep River Sampling Exception Report
23 November 2020

- On the 18th November 2020, Makoya Amanzi performed a routine round of sampling along the Diep River.
- Our starting point was the Pots Dam Waste Water Treatment Plant.
- We were **encouraged** to find that a common undocumented discharge point (Our reference PDZ) was not flowing on this day and that the a previously unknown (by the plant staff) culvert had been uncover – presumably during an embankment maintenance activity.
- However, we were once again **dismayed** to find a strong flow out of one of the other undocumented discharge points.
- The water was odorous and we stated smelling it long before we arrived at it.
  The water was sent in for analyses and was found to be highly contaminated with E.coli – **8 400 000 cfu/100ml.** A similar sample was taken for the plant staff.



- The effect this is having on the river is obvious aesthetically (visually and odorous water flowing into and down the channel) as well as measurable by downstream E.coli levels.
- The E.coli up stream from the Pots Dam plant was **108 cfu/100ml** (one of the lowest ever recorded), whereas we recorded a level of **1 680 000 cfu/100ml below the treatment plant.**
- While the Theo Marais Storm Water Channel has been blamed and does contribute to the Diep River Pollution, it is usually to a lesser extent. On the 18th it was at a **comparatively insignificant** level of 1 810 cfu/100ml.
- The level of contamination further downstream was high – Milnerton Canoe Club **10 000 cfu/100ml** – which could be attributed to the Pots Dam discharge.



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- While it may be tempting to explain this as an operation accident, it is by no means an isolated incident, and Makoya Amanzi has identified this site as a regular (albeit undocumented) Pots Dam discharge with high levels of E.coli.

Date	PDC E.coli (cfu/100ml)	Photographic Records
08 Apr 20	**32 000**	
21 Apr 20	**12 800**	
06 May 20	**4 400**	
25 Jun 20	**8 100**	
17 Sep 20	**6 500**	
18-Nov-20	**8 400 000**	

Submitted by: Craig Greggor **Date:** 24 November 2020