

**Table 2:** Summary of technical issues relating to water quality standards outstanding at the conclusion of submitter evidence to the Hearing.

Issue	Evidence provided by:	Outcome / Recommendation
a. QMCI 20% percent or statistically significant reduction	<p>Keith Hamill (suppl. evidence paras 3.4-3.7)</p> <p>Assoc. Prof. Russell Death (EIC para 34)</p> <p>Kate McArthur (suppl. evidence Table 2, page 11)</p>	<p>No agreement reached between experts.</p> <p><b>Recommendation:</b> The reference to “statistically significant” is removed from the QMCI change standard and 20% reduction is used instead.</p>
b. Deposited sediment standard	<p>Assoc. Prof. Russell Death (EIC paras28-30)</p>	<p>No change is recommended. An appropriate numerical standard is not available at this time for inclusion in Schedule D. Horizons continues to support the national programme to develop measurement tools and scientifically robust guidelines with the intention of utilising the guidelines once completed for assessing the impact of activities on deposited sediment.</p>
c. Faecal indicator bacteria standard – estuary sub-zones ( <i>E. coli</i> or enterococci)	<p>Dr Rob Davies-Colley (s42A report, para 61, page 17)</p> <p>Graham McBride (verbal evidence)</p> <p>Dr John Zeldis (s42 A report para 35 and 37, page 7)</p>	<p><i>E. coli</i> has been agreed as the best indicator on which to base a water quality standard for estuaries. The standard should remain as proposed in the pink Track Changes version. Memo of agreement appended as Appendix 3.</p>
d. Visual clarity in estuary sub-zones and lakes	<p>Dr Rob Davies-Colley (s42 A report para 38, page 10)</p> <p>Max Gibbs (s42 A report para 14, point x, page 7)</p> <p>Dr John Zeldis (s42 A report para 42, page 7)</p>	<p>The minimum visual clarity standard for estuary sub-zones and shallow lakes shall be amended to be 1.2 metres and 2.1 metres for deep lakes. All references to the use of Secchi depth to monitor estuary sub-zones, the Seawater management zone or shallow and deep lakes should be removed in favour of a black disc measurement that is relevant to the standards agreed. Memo of agreement appended as Appendix 3.</p>
e. Removal of cyanobacterial toxin standards – lakes	<p>Max Gibbs (s42 A report para 14, point xiv, page 8)</p> <p>Kate McArthur (s42 A report Table 12, page 118)</p>	<p>All references to standards for cyanobacterial toxicity should be removed from the Plan. Memo of agreement appended as Appendix 3.</p>
f. Inappropriate use of the ANZECC toxicity guidelines	<p>Paul Kennedy (Suppl. Evidence para 14)</p>	<p><b>Recommendation:</b> the standards should remain as written in the pink Track Changes version (see below).</p>