







## Onrus Estuary Mouth: Recreational water quality according to DWA Guideline<sup>1</sup>

Date	E. coli (counts/100ml)	Rolling 3-month geomean	TYPE OF EFFECTS
2023/09/21	70	33,9	Low RISK
2023/10/19	600	51,3	Low RISK
Geomean for full period since 14 March		105,8	LOW RISK
2018			

## Full-contact recreation (swimming): effects of E. coli on human health

E. coli range (counts/100mL)	Effects		
Target Water Quality			
Range			
0-130	A low risk of gastrointestinal illness is indicated for contact recreational water use. This is not expected to exceed a risk of typically < 8 illnesses/1000 swimmers.		
130-200	A slight risk of gastrointestinal effects among swimmers and bathers may be expected. Negligible effects are expected if these levels occur in isolated instances only.		
200-400	Some risk of gastrointestinal effects exists if geometric mean or median <i>E. coli</i> levels are in this range, particularly if this occurs frequently. The risk is minimal if only isolated samples fall in this range. Resampling should be conducted if individual results > 400/100 mL are recorded.		
>400	Risks of health effects associated with contact recreational water use increase as <i>E. coli</i> levels increase. The volume of water which needs to be ingested in ordder to cause ill effects decreases as the <i>E. coli</i> density increases. Gastrointestinal illness can be expected to increase approximately in accordance with the following relationshp, based on US EPA epidemiological studies: $y = -150.5 + 423.5 (\log x)$ Where y = illness rate/100 000 persons $x = \text{number of E. coli}/100 \text{ mL } (x \ge 3)$		

Please contact the Overberg District Municipality: Health Department, on 028 313 1243 for specific questions related to the recreational water quality.

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http://www.dwa.gov.za/IWQS/wq\_guide/edited/Pol\_saWQguideFRESHRecreationalUsevol2.pdf

<sup>&</sup>lt;sup>1</sup> RSA Department of Water Affairs and Forestry. 1996. South African Water Quality Guidelines (second edition), Volume 2: Recreational Use.