

	<ul style="list-style-type: none"><li>(b) will the proposed development change the sediment regime of the aquatic ecosystem and its sub-catchment (e.g. sand movement, meandering river mouth or estuary, flooding or sedimentation patterns);</li><li>(c) what will the extent of the modification in relation to the overall aquatic ecosystem be (e.g. at the source, upstream or downstream portion, in the temporary / seasonal / permanent zone of a wetland, in the riparian zone or within the channel of a watercourse, etc.); and</li><li>(d) to what extent will the risks associated with water uses and related activities change;</li></ul> <p>2.5.4. how will the proposed development impact on the functioning of the aquatic feature? This must include:</p> <ul style="list-style-type: none"><li>(a) base flows (e.g. too little or too much water in terms of characteristics and requirements of the system);</li><li>(b) quantity of water including change in the hydrological regime or hydroperiod of the aquatic ecosystem (e.g. seasonal to temporary or permanent; impact of over-abstraction or instream or off-stream impoundment of a wetland or river);</li><li>(c) change in the hydrogeomorphic typing of the aquatic ecosystem (e.g. change from an unchannelled valley-bottom wetland to a channelled valley-bottom wetland);</li><li>(d) quality of water (e.g. due to increased sediment load, contamination by chemical and/or organic effluent, and/or eutrophication);</li><li>(e) fragmentation (e.g. road or pipeline crossing a wetland) and loss of ecological connectivity (lateral and longitudinal); and</li><li>(f) the loss or degradation of all or part of any unique or important features associated with or within the aquatic ecosystem (e.g. waterfalls, springs, oxbow lakes, meandering or braided channels, peat soils, etc.);</li></ul> <p>2.5.5. how will the proposed development impact on key ecosystems regulating and supporting services especially:</p> <ul style="list-style-type: none"><li>(a) flood attenuation;</li><li>(b) streamflow regulation;</li><li>(c) sediment trapping;</li><li>(d) phosphate assimilation;</li><li>(e) nitrate assimilation;</li><li>(f) toxicant assimilation;</li><li>(g) erosion control; and</li><li>(h) carbon storage?</li></ul> <p>2.5.6. how will the proposed development impact community composition (numbers and density of species) and integrity (condition, viability, predator-prey ratios, dispersal rates, etc.) of the faunal and vegetation communities inhabiting the site?</p> <p>2.6. In addition to the above, where applicable, impacts to the frequency of estuary mouth closure should be considered, in relation to:</p> <ul style="list-style-type: none"><li>(a) size of the estuary;</li><li>(b) availability of sediment;</li><li>(c) wave action in the mouth;</li><li>(d) protection of the mouth;</li><li>(e) beach slope;</li><li>(f) volume of mean annual runoff; and</li><li>(g) extent of saline intrusion (especially relevant to permanently open systems).</li></ul>
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