

Version 3 Hammond Reef Gold Project EIS/EA – Addendum (Part B)
 Responses to Provincial Information Requests

1656263

Identifier	Topic	Reference to EIS/EA Report	Summary of Comment	Proponent's Response	Subsequent Comment
			<i>Date: March 2014</i>	<i>Date: June 2015</i>	
MOE SW-5	Water Quality/ Seepage	EIS/EA 6.1.3.3.1	<p>Clarification of the conditions representing 'Average Mixing Conditions' and 'Maximum Mixing Conditions' used to model the water quality impacts on Upper Marmion Lake due to effluent discharge; Provincial protocols require that worst case conditions be modelled.</p>	<p>The basin mixing model (box model) simulated the mixing characteristics of Upper Marmion Reservoir that result from inflows, water level management at the Raft Lake Dam and wind driven dispersion in Sawbill Bay. A 28-year period (from January 1984 to December 2011) was simulated using inflow and water level time series' as described in Section 3.1.3.3 of the Lake Water Quality TSD. The results are presented as concentrations of mine effluent in each model compartment assuming the discharge of a non-specific, conservative parameter with an initial concentration of 100 (particles per unit volume).</p> <p>The 'average mixing condition' is defined by the average predicted concentration in each model compartment over the 28-year simulation period. The 'maximum mixing condition' is defined by the highest predicted concentration in each model compartment over the 28-year period. The 'maximum mixing condition' is therefore representative of the 'worst-case mixing condition' in terms of the dilution capacity of the basin.</p>	<p>MOE SW-5B</p>