

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: August 2015</i>	<i>Date: November 2015</i>	
EMRB-NEW10	Air Quality, dust deposition	Human health and Ecological Risk Assessment TSD §5.2.1.1; Terrestrial Ecology Effects Assessment for Bats TSD §4.1.1.7; Terrestrial Ecology TSD §3.3.1.5, §3.4.1.4, §3.5.1.7, §3.6.1.7, §3.7.1.7, §3.8.1.5; EIS/EA §6.1.2.1.1, §6.1.2.1.2	Dust Deposition (dustfall). The Terrestrial Ecology TSD presents limited data on dust (TSP) deposition (150 g/m ² /yr), and indicates that this is further discussed in the Air TSD. However, the methodology and results for TSP deposition do not appear to be included in the Air TSD. As noted in the previous IR, the TSP concentrations are quite high which could indicate a potential dusting issue, and as such more information and details on the deposition is required. Please provide information on the methodology (i.e. which emission scenario was used – OCA or HHERA?) as well as the dust deposition results in comparison to the Ontario AAQC for dust deposition, both on a monthly and annual basis.	Dry and wet deposition modelling was completed at the discrete receptor locations. This data was considered in the Human Health and Ecological Risk Assessment and the Terrestrial Ecology effects assessment. A particle diameter size of 30 micrometers, a mass fraction of 1.0 and density of 2.5 was assigned to each source. Table EMRB-NEW10 provides the dry and wet deposition rates for the receptor locations. Four receptor locations have predicted dry deposition rates above the annual dust fall Ontario Ambient Air Quality Criteria of 4.6 g/m ² under the conservative emission rate calculations that assume maximum daily production for the entire year. However all four of these locations would be below the criteria once precipitation is considered. Modelling for monthly accumulation was not completed as part of the EA Air Quality Assessment and therefore comparison to monthly AAQC is not available. <u>Relevant Attachments:</u> Table EMRB-NEW10	N/A