

Table T(2)-02-1: Summary of Air Quality Assessments Completed

Air Quality Assessment	Rationale	Inclusion in which Document
Ontario Compliance	<p>This assessment focused on demonstrating the Project’s ability to be permitted in Ontario, meaning showing compliance with O.Reg.419/05 and obtaining an ECA.</p> <p>For this reason, only emissions from source requiring an ECA were included in the assessment. For example, mobile sources do not require approval in Ontario therefore they were not included in this assessment. Table 3-9 in the Atmospheric TSD lists the project activities that were included in the assessment.</p>	This assessment was detailed in the Atmospheric TSD
HHREA	This assessment focused on providing air concentrations and deposition rates as a result of the Project for assessment in the HHERA. This assessment included all significant emission sources for the Project. Emissions from mobile vehicles were included.	These concentrations and depositions were provided to the HHER team for assessment in the HHERA TSD.
Ambient Air Quality	At the request of regulators during the first round of information requests, an ambient air quality assessment was conducted which summarized the ambient air concentrations for PM10, PM2.5, NOx, SO2 and CO as a result of the Project in the LSA, RSA and beyond the RSA. Like the HHERA, this assessment included all significant emission sources for the Project. The emissions rates and source configurations used in the dispersion modelling for this assessment were identical to the HHERA.	The modelled concentrations from this assessment were combined with the background air quality for the area and compared to the application criteria in Part B of the Version 2 Atmospheric Environment TSD.

Table T(2)-02-2: Summary of Control Factors

Source/Activity	Control Factor	Justification [Reference]	Was the Control Factor Included in Modelling?	Measures for Follow Up Monitoring to Evaluate Effectiveness
Roads	80%	See discussion in response to EMRB-2	Yes	Air Quality Monitoring Program, Fugitive Dust Best Management Practices Plan including road dust sampling, quantification and characterization
Material Transfer Into Crusher	75%	Controlled by an enclosure around drop point - conservative assumption of only 75% mitigation	Yes	Air Quality Monitoring Program
Crushing	99%	Controlled by Scrubber [US EPA AP-42 Appendix B.2 Generalized Particle Size Distributions, Jan 1996; Wet Scrubber, High Efficiency]	Yes	Air Quality Monitoring Program,
Screening and Material Transfer at Crushing and Screening Location	99.5%	Controlled by Fabric Filter [US EPA AP-42 Appendix B.2 Generalized Particle Size Distributions, Jan 1996; Fabric Filter-med. Temp]	Yes	