

Table MOE Air-2-1: Existing and Predicted Ambient Air Concentrations

Indicator		Baseline Concentration ^(a) (µg/m ³)	Maximum Predicted Air Concentration (µg/m ³)			
Compound	Averaging Period		Local Study Area ^(b)	LSA with 500m buffer	Regional Study Area ^(c)	Beyond Regional Study Area ^(d)
PM _{2.5}	24-hour	4.93	77.53	59.09	9.20	2.77
	Annual	—	10.72	7.47	0.82	0.63
PM ₁₀	24-hour	17.81	473.44	356.13	85.17	69.93
TSP	24-hour	35.62	1182.00	842.56	182.52	140.79
	Annual	—	168.37	113.32	11.26	9.09
NO ₂	1-hour	2.32	338.93	—	162.90	140.47
	24-hour	2.32	113.51	—	62.97	50.43
	Annual	—	53.26	—	3.38	2.59
SO ₂	1-hour	2.62	868.16	—	197.61	152.68
	24-hour	1.77	25.25	—	11.46	8.42
	Annual	—	1.56	—	0.55	0.45
CO	1-hour	1150	2039.60	—	751.42	619.16
	8-hour	1160	1139.41	—	419.77	345.89

(a) Values used in the HHERA; no baseline concentration data is available for the annual averaging period

(b) Represents the maximum ambient air concentration outside of the property boundary but within the LSA

(c) Represents the maximum ambient air concentration outside the LSA but within the RSA

(d) Represents the maximum ambient air concentration outside the RSA

Table MOE Air-2-2: Maximum Ambient Air Concentrations for the Project

Indicator		NAAQO/CAAQS ($\mu\text{g}/\text{m}^3$)	Maximum Ambient Air Concentration ($\mu\text{g}/\text{m}^3$)			
Compound	Averaging Period		Local Study Area ^(a)	LSA with 500m buffer	Regional Study Area ^(b)	Beyond Regional Study Area ^(c)
PM _{2.5}	24-hour	28*	82	64	14	8
	Annual ^(d)	10	11	7	1	1
PM ₁₀	24-hour	50 (interim AAQO)	491	374	103	88
TSP	24-hour	120 (AAQO)	1,218	878	218	176
	Annual ^(d)	70	181	116	11	9
NO ₂	1-hour	400	341	—	165	143
	24-hour	200	116	—	65	53
	Annual ^(d)	100	53	—	3	3
SO ₂	1-hour	900	871	—	200	155
	24-hour	300	27	—	13	10
	Annual ^(d)	60	2	—	1	0
CO	1-hour	35,000	3,190	—	1,901	1,769
	8-hour	15,000	2,299	—	1,580	1,506

(a) Represents the maximum ambient air concentration outside of the property boundary but within the LSA

(b) Represents the maximum ambient air concentration outside the LSA but within the RSA

(c) Represents the maximum ambient air concentration outside the RSA

(d) No baseline concentration data is available for the annual averaging period and therefore values in the table for annual averaging periods are modelled concentrations only.

*Criteria is based on the 98th percentile, however the maximum ambient air concentration for each study area is shown