



MOE-AIR-2 - Tables

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	—	1182.00	842.56	182.52	140.79
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

(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



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

Indicator		NAAQO/CAAQS (µg/m ³)	Maximum Ambient Air Concentration (µg/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	10	11	7	1	1
PM ₁₀	24-hour	50 (interim AAQO)	491	830	103	88
TSP	24-hour	120 (AAQO)	1,182	843	183	141
NO ₂	1-hour	400	341	—	165	143
	24-hour	200	116	—	65	53
	Annual	100	53	—	3	3
SO ₂	1-hour	900	871	—	200	155
	24-hour	300	27	—	13	10
	Annual	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

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

Table MOE Air-2-3: PM_{2.5} Concentrations and Frequency Above Criteria

24-hr averaged PM _{2.5}	LSA	LSA + 500 m buffer
98 th percentile modelled concentration (µg/m ³)	52.96	23.30
Frequency above criteria	381 (21%)	38 (2%)