

Sample Calculation of Portal Emission from the Proposed Full Enclosure at Hour 08

Initial NO2 Emission

Enclosure ID	Description	Link ID	Tunnel Length	Tunnel Length	Traffic Flow	Emission Factor	Total Emission		Portal Emission		Remark
			(m)	(mile)	(veh/hr)	(g/mile-veh)	(g/hr)	(g/s)	1st 50m (g/s)	2nd 50m (g/s)	
FE01-02	Road D1 (NB)	5458	23	0.014	1652	0.049	1.1	0.0025	---	---	Assume pollutant within the enclosure are emitted based on the traffic flow : =FE01-02 x Ratio 1
	Tong Yan San Tsuen INT (NB) to Yuen Long Highway (WB)	5463	162	0.101	894	0.035	3.2		0.0009	0.0004	
	Tong Yan San Tsuen INT (NB) to Yuen Long Highway (EB)	5552	150	0.093	758	0.064	4.5		0.0008	0.0004	
FE03-04	Road D1 (SB)	5535	24	0.015	1369	0.062	1.3	0.0027	0.0018	0.0009	
	Tong Yan San Tsuen INT (SB) from Yuen Long Highway (WB)	5539	180	0.112	153	0.085	1.4		---	---	
	Tong Yan San Tsuen INT (SB) from Yuen Long Highway (EB)	5525	157	0.098	1216	0.059	7.0		---	---	

Residual NOx Emission

Enclosure ID	Description	Link ID	Tunnel Length	Tunnel Length	Traffic Flow	Emission Factor	Total Emission		Portal Emission		Remark
			(m)	(mile)	(veh/hr)	(g/mile-veh)	(g/hr)	(g/s)	1st 50m (g/s)	2nd 50m (g/s)	
FE01-02	Road D1 (NB)	5458	23	0.014	1652	0.270	6.4	0.0137	---	---	Assume pollutant within the enclosure are emitted based on the traffic flow : =FE01-02 x Ratio 1
	Tong Yan San Tsuen INT (NB) to Yuen Long Highway (WB)	5463	162	0.101	894	0.204	18.3		0.0064	0.0032	
	Tong Yan San Tsuen INT (NB) to Yuen Long Highway (EB)	5552	150	0.093	758	0.348	24.6		0.0027	0.0014	
FE03-04	Road D1 (SB)	5535	24	0.015	1369	0.306	6.3	0.0132	0.0088	0.0044	
	Tong Yan San Tsuen INT (SB) from Yuen Long Highway (WB)	5539	180	0.112	153	0.348	5.9		---	---	
	Tong Yan San Tsuen INT (SB) from Yuen Long Highway (EB)	5525	157	0.098	1216	0.299	35.5		---	---	

RSP Emission

Enclosure ID	Description	Link ID	Tunnel Length	Tunnel Length	Traffic Flow	Emission Factor	Total Emission		Portal Emission		Remark
			(m)	(mile)	(veh/hr)	(g/mile-veh)	(g/hr)	(g/s)	1st 50m (g/s)	2nd 50m (g/s)	
FE01-02	Road D1 (NB)	5458	23	0.014	1652	0.011	0.25	0.0005	---	---	Assume pollutant within the enclosure are emitted based on the traffic flow : =FE01-02 x Ratio 1
	Tong Yan San Tsuen INT (NB) to Yuen Long Highway (WB)	5463	162	0.101	894	0.010	0.86		0.0003	0.0001	
	Tong Yan San Tsuen INT (NB) to Yuen Long Highway (EB)	5552	150	0.093	758	0.012	0.85		0.0001	0.0001	
FE03-04	Road D1 (SB)	5535	24	0.015	1369	0.012	0.25	0.0005	0.0004	0.0002	
	Tong Yan San Tsuen INT (SB) from Yuen Long Highway (WB)	5539	180	0.112	153	0.016	0.27		---	---	
	Tong Yan San Tsuen INT (SB) from Yuen Long Highway (EB)	5525	157	0.098	1216	0.012	1.40		---	---	

FSP Emission

Enclosure ID	Description	Link ID	Tunnel Length	Tunnel Length	Traffic Flow	Emission Factor	Total Emission		Portal Emission		Remark
			(m)	(mile)	(veh/hr)	(g/mile-veh)	(g/hr)	(g/s)	1st 50m (g/s)	2nd 50m (g/s)	
FE01-02	Road D1 (NB)	5458	23	0.014	1652	0.010	0.23	0.0005	---	---	Assume pollutant within the enclosure are emitted based on the traffic flow : =FE01-02 x Ratio 1
	Tong Yan San Tsuen INT (NB) to Yuen Long Highway (WB)	5463	162	0.101	894	0.009	0.80		0.0002	0.0001	
	Tong Yan San Tsuen INT (NB) to Yuen Long Highway (EB)	5552	150	0.093	758	0.011	0.79		0.0001	0.0001	
FE03-04	Road D1 (SB)	5535	24	0.015	1369	0.011	0.23	0.0005	0.0003	0.0002	
	Tong Yan San Tsuen INT (SB) from Yuen Long Highway (WB)	5539	180	0.112	153	0.014	0.25		---	---	
	Tong Yan San Tsuen INT (SB) from Yuen Long Highway (EB)	5525	157	0.098	1216	0.011	1.29		---	---	

Traffic Flow Ratio

FE01-02

Hour		Traffic Flow (vehicle / hour)		Ratio 1		Ratio 2	
Start	End	To YLH(WB)	To YLH(EB)	To YLH(WB)	To YLH(EB)	To YLH(WB)	To YLH(EB)
0	1	246	209	0.54	0.46		
1	2	181	154	0.54	0.46		
2	3	117	99	0.54	0.46		
3	4	104	88	0.54	0.46		
4	5	91	77	0.54	0.46		
5	6	130	110	0.54	0.46		
6	7	246	209	0.54	0.46		
7	8	674	571	0.54	0.46		
8	9	894	758	0.54	0.46		
9	10	764	648	0.54	0.46		
10	11	751	637	0.54	0.46		
11	12	713	604	0.54	0.46		
12	13	700	593	0.54	0.46		
13	14	713	604	0.54	0.46		
14	15	739	626	0.54	0.46		
15	16	790	670	0.54	0.46		
16	17	803	681	0.54	0.46		
17	18	816	692	0.54	0.46		
18	19	881	747	0.54	0.46		
19	20	764	648	0.54	0.46		
20	21	570	483	0.54	0.46		
21	22	479	406	0.54	0.46		
22	23	428	363	0.54	0.46		
23	24	363	308	0.54	0.46		

Emission Inventory for Portal Emission from the Proposed Full Enclosure (Initial NO2)

Enclosure ID	Description	Source ID	Type	Location		Release Height [1] (m)	Lateral Dim. (Sy) [2] (m)	Vertical Dim. (Sz) [3] (m)	Hourly Emission Rate (g/s)																							
				X	Y				Hr 00	Hr 01	Hr 02	Hr 03	Hr 04	Hr 05	Hr 06	Hr 07	Hr 08	Hr 09	Hr 10	Hr 11	Hr 12	Hr 13	Hr 14	Hr 15	Hr 16	Hr 17	Hr 18	Hr 19	Hr 20	Hr 21	Hr 22	Hr 23
				(m)	(m)																											
FE01-02	Tong Yan San Tsuen INT (NB) to Yuen Long Highway (WB)	LHSRW01	VOLUME	819567	833010	3.0	3.26	2.79	3.02E-5	2.15E-5	1.35E-5	1.25E-5	8.37E-6	1.39E-5	2.90E-5	8.92E-5	1.27E-4	1.07E-4	1.04E-4	9.65E-5	9.46E-5	9.64E-5	1.03E-4	1.10E-4	1.14E-4	1.23E-4	1.34E-4	1.02E-4	6.98E-5	5.79E-5	5.05E-5	4.32E-5
		LHSRW02	VOLUME	819563	833016	3.0	3.26	2.79	3.02E-5	2.15E-5	1.35E-5	1.25E-5	8.37E-6	1.39E-5	2.90E-5	8.92E-5	1.27E-4	1.07E-4	1.04E-4	9.65E-5	9.46E-5	9.64E-5	1.03E-4	1.10E-4	1.14E-4	1.23E-4	1.34E-4	1.02E-4	6.98E-5	5.79E-5	5.05E-5	4.32E-5
		LHSRW03	VOLUME	819553	833016	3.0	3.26	2.79	3.02E-5	2.15E-5	1.35E-5	1.25E-5	8.37E-6	1.39E-5	2.90E-5	8.92E-5	1.27E-4	1.07E-4	1.04E-4	9.65E-5	9.46E-5	9.64E-5	1.03E-4	1.10E-4	1.14E-4	1.23E-4	1.34E-4	1.02E-4	6.98E-5	5.79E-5	5.05E-5	4.32E-5
		LHSRW04	VOLUME	819548	833021	3.0	3.26	2.79	3.02E-5	2.15E-5	1.35E-5	1.25E-5	8.37E-6	1.39E-5	2.90E-5	8.92E-5	1.27E-4	1.07E-4	1.04E-4	9.65E-5	9.46E-5	9.64E-5	1.03E-4	1.10E-4	1.14E-4	1.23E-4	1.34E-4	1.02E-4	6.98E-5	5.79E-5	5.05E-5	4.32E-5
		LHSRW05	VOLUME	819544	833027	3.0	3.26	2.79	3.02E-5	2.15E-5	1.35E-5	1.25E-5	8.37E-6	1.39E-5	2.90E-5	8.92E-5	1.27E-4	1.07E-4	1.04E-4	9.65E-5	9.46E-5	9.64E-5	1.03E-4	1.10E-4	1.14E-4	1.23E-4	1.34E-4	1.02E-4	6.98E-5	5.79E-5	5.05E-5	4.32E-5
		LHSRW06	VOLUME	819539	833032	3.0	3.26	2.79	3.02E-5	2.15E-5	1.35E-5	1.25E-5	8.37E-6	1.39E-5	2.90E-5	8.92E-5	1.27E-4	1.07E-4	1.04E-4	9.65E-5	9.46E-5	9.64E-5	1.03E-4	1.10E-4	1.14E-4	1.23E-4	1.34E-4	1.02E-4	6.98E-5	5.79E-5	5.05E-5	4.32E-5
		LHSRW07	VOLUME	819534	833037	3.0	3.26	2.79	3.02E-5	2.15E-5	1.35E-5	1.25E-5	8.37E-6	1.39E-5	2.90E-5	8.92E-5	1.27E-4	1.07E-4	1.04E-4	9.65E-5	9.46E-5	9.64E-5	1.03E-4	1.10E-4	1.14E-4	1.23E-4	1.34E-4	1.02E-4	6.98E-5	5.79E-5	5.05E-5	4.32E-5
		LHSRW08	VOLUME	819530	833042	3.0	3.26	2.79	1.51E-5	1.08E-5	6.74E-6	6.24E-6	4.19E-6	6.95E-6	1.45E-5	4.46E-5	6.34E-5	5.33E-5	5.20E-5	4.82E-5	4.73E-5	4.82E-5	5.13E-5	5.51E-5	5.69E-5	6.15E-5	6.71E-5	5.10E-5	3.49E-5	2.90E-5	2.52E-5	2.16E-5
		LHSRW09	VOLUME	819525	833048	3.0	3.26	2.79	1.51E-5	1.08E-5	6.74E-6	6.24E-6	4.19E-6	6.95E-6	1.45E-5	4.46E-5	6.34E-5	5.33E-5	5.20E-5	4.82E-5	4.73E-5	4.82E-5	5.13E-5	5.51E-5	5.69E-5	6.15E-5	6.71E-5	5.10E-5	3.49E-5	2.90E-5	2.52E-5	2.16E-5
		LHSRW10	VOLUME	819520	833053	3.0	3.26	2.79	1.51E-5	1.08E-5	6.74E-6	6.24E-6	4.19E-6	6.95E-6	1.45E-5	4.46E-5	6.34E-5	5.33E-5	5.20E-5	4.82E-5	4.73E-5	4.82E-5	5.13E-5	5.51E-5	5.69E-5	6.15E-5	6.71E-5	5.10E-5	3.49E-5	2.90E-5	2.52E-5	2.16E-5
		LHSRW11	VOLUME	819516	833058	3.0	3.26	2.79	1.51E-5	1.08E-5	6.74E-6	6.24E-6	4.19E-6	6.95E-6	1.45E-5	4.46E-5	6.34E-5	5.33E-5	5.20E-5	4.82E-5	4.73E-5	4.82E-5	5.13E-5	5.51E-5	5.69E-5	6.15E-5	6.71E-5	5.10E-5	3.49E-5	2.90E-5	2.52E-5	2.16E-5
		LHSRW12	VOLUME	819511	833063	3.0	3.26	2.79	1.51E-5	1.08E-5	6.74E-6	6.24E-6	4.19E-6	6.95E-6	1.45E-5	4.46E-5	6.34E-5	5.33E-5	5.20E-5	4.82E-5	4.73E-5	4.82E-5	5.13E-5	5.51E-5	5.69E-5	6.15E-5	6.71E-5	5.10E-5	3.49E-5	2.90E-5	2.52E-5	2.16E-5
		LHSRW13	VOLUME	819507	833069	3.0	3.26	2.79	1.51E-5	1.08E-5	6.74E-6	6.24E-6	4.19E-6	6.95E-6	1.45E-5	4.46E-5	6.34E-5	5.33E-5	5.20E-5	4.82E-5	4.73E-5	4.82E-5	5.13E-5	5.51E-5	5.69E-5	6.15E-5	6.71E-5	5.10E-5	3.49E-5	2.90E-5	2.52E-5	2.16E-5
		LHSRW14	VOLUME	819502	833074	3.0	3.26	2.79	1.51E-5	1.08E-5	6.74E-6	6.24E-6	4.19E-6	6.95E-6	1.45E-5	4.46E-5	6.34E-5	5.33E-5	5.20E-5	4.82E-5	4.73E-5	4.82E-5	5.13E-5	5.51E-5	5.69E-5	6.15E-5	6.71E-5	5.10E-5	3.49E-5	2.90E-5	2.52E-5	2.16E-5
	LHSRE01	VOLUME	819600	833001	3.0	3.26	2.79	2.56E-5	1.83E-5	1.14E-5	1.06E-5	7.08E-6	1.18E-5	2.47E-5	7.56E-5	1.08E-4	9.04E-5	8.82E-5	8.17E-5	8.01E-5	8.17E-5	8.69E-5	9.35E-5	9.66E-5	1.04E-4	1.14E-4	8.65E-5	5.91E-5	4.91E-5	4.28E-5	3.67E-5	
	LHSRE02	VOLUME	819601	833008	3.0	3.26	2.79	2.56E-5	1.83E-5	1.14E-5	1.06E-5	7.08E-6	1.18E-5	2.47E-5	7.56E-5	1.08E-4	9.04E-5	8.82E-5	8.17E-5	8.01E-5	8.17E-5	8.69E-5	9.35E-5	9.66E-5	1.04E-4	1.14E-4	8.65E-5	5.91E-5	4.91E-5	4.28E-5	3.67E-5	
	LHSRE03	VOLUME	819601	833015	3.0	3.26	2.79	2.56E-5	1.83E-5	1.14E-5	1.06E-5	7.08E-6	1.18E-5	2.47E-5	7.56E-5	1.08E-4	9.04E-5	8.82E-5	8.17E-5	8.01E-5	8.17E-5	8.69E-5	9.35E-5	9.66E-5	1.04E-4	1.14E-4	8.65E-5	5.91E-5	4.91E-5	4.28E-5	3.67E-5	
	LHSRE04	VOLUME	819601	833022	3.0	3.26	2.79	2.56E-5	1.83E-5	1.14E-5	1.06E-5	7.08E-6	1.18E-5	2.47E-5	7.56E-5	1.08E-4	9.04E-5	8.82E-5	8.17E-5	8.01E-5	8.17E-5	8.69E-5	9.35E-5	9.66E-5	1.04E-4	1.14E-4	8.65E-5	5.91E-5	4.91E-5	4.28E-5	3.67E-5	
	LHSRE05	VOLUME	819601	833029	3.0	3.26	2.79	2.56E-5	1.83E-5	1.14E-5	1.06E-5	7.08E-6	1.18E-5	2.47E-5	7.56E-5	1.08E-4	9.04E-5	8.82E-5	8.17E-5	8.01E-5	8.17E-5	8.69E-5	9.35E-5	9.66E-5	1.04E-4	1.14E-4	8.65E-5	5.91E-5	4.91E-5	4.28E-5	3.67E-5	
	LHSRE06	VOLUME	819601	833036	3.0	3.26	2.79	2.56E-5	1.83E-5	1.14E-5	1.06E-5	7.08E-6	1.18E-5	2.47E-5	7.56E-5	1.08E-4	9.04E-5	8.82E-5	8.17E-5	8.01E-5	8.17E-5	8.69E-5	9.35E-5	9.66E-5	1.04E-4	1.14E-4	8.65E-5	5.91E-5	4.91E-5	4.28E-5	3.67E-5	
	LHSRE07	VOLUME	819601	833043	3.0	3.26	2.79	2.56E-5	1.83E-5	1.14E-5	1.06E-5	7.08E-6	1.18E-5	2.47E-5	7.56E-5	1.08E-4	9.04E-5	8.82E-5	8.17E-5	8.01E-5	8.17E-5	8.69E-5	9.35E-5	9.66E-5	1.04E-4	1.14E-4	8.65E-5	5.91E-5	4.91E-5	4.28E-5	3.67E-5	
	LHSRE08	VOLUME	819601	833050	3.0	3.26	2.79	1.28E-5	9.15E-6	5.70E-6	5.28E-6	3.54E-6	5.88E-6	1.23E-5	3.78E-5	5.38E-5	4.52E-5	4.41E-5	4.09E-5	4.01E-5	4.08E-5	4.35E-5	4.68E-5	4.83E-5	5.21E-5	5.69E-5	4.32E-5	2.96E-5	2.46E-5	2.14E-5	1.83E-5	
	LHSRE09	VOLUME	819601	833057	3.0	3.26	2.79	1.28E-5	9.15E-6	5.70E-6	5.28E-6	3.54E-6	5.88E-6	1.23E-5	3.78E-5	5.38E-5	4.52E-5	4.41E-5	4.09E-5	4.01E-5	4.08E-5	4.35E-5	4.68E-5	4.83E-5	5.21E-5	5.69E-5	4.32E-5	2.96E-5	2.46E-5	2.14E-5	1.83E-5	
	LHSRE10	VOLUME	819602	833064	3.0	3.26	2.79	1.28E-5	9.15E-6	5.70E-6	5.28E-6	3.54E-6	5.88E-6	1.23E-5	3.78E-5	5.38E-5	4.52E-5	4.41E-5	4.09E-5	4.01E-5	4.08E-5	4.35E-5	4.68E-5	4.83E-5	5.21E-5	5.69E-5	4.32E-5	2.96E-5	2.46E-5	2.14E-5	1.83E-5	
	LHSRE11	VOLUME	819602	833071	3.0	3.26	2.79	1.28E-5	9.15E-6	5.70E-6	5.28E-6	3.54E-6	5.88E-6	1.23E-5	3.78E-5	5.38E-5	4.52E-5	4.41E-5	4.09E-5	4.01E-5	4.08E-5	4.35E-5	4.68E-5	4.83E-5	5.21E-5	5.69E-5	4.32E-5	2.96E-5	2.46E-5	2.14E-5	1.83E-5	
	LHSRE12	VOLUME	819602	833078	3.0	3.26	2.79	1.28E-5	9.15E-6	5.70E-6	5.28E-6	3.54E-6	5.88E-6	1.23E-5	3.78E-5	5.38E-5	4.52E-5	4.41E-5	4.09E-5	4.01E-5	4.08E-5	4.35E-5	4.68E-5	4.83E-5	5.21E-5	5.69E-5	4.32E-5	2.96E-5	2.46E-5	2.14E-5	1.83E-5	
	LHSRE13	VOLUME	819602	833085	3.0	3.26	2.79	1.28E-5	9.15E-6	5.70E-6	5.28E-6	3.54E-6	5.88E-6	1.23E-5	3.78E-5	5.38E-5	4.52E-5	4.41E-5	4.09E-5	4.01E-5	4.08E-5	4.35E-5	4.68E-5	4.83E-5	5.21E-5	5.69E-5	4.32E-5	2.96E-5	2.46E-5	2.14E-5	1.83E-5	
	LHSRE14	VOLUME	819602	833092	3.0	3.26	2.79	1.28E-5	9.15E-6	5.70E-6	5.28E-6	3.54E-6	5.88E-6	1.23E-5	3.78E-5	5.38E-5	4.52E-5	4.41E-5	4.09E-5	4.01E-5	4.08E-5	4.35E-5	4.68E-5	4.83E-5	5.21E-5	5.69E-5	4.32E-5	2.96E-5	2.46E-5	2.14E-5	1.83E-5	
FE03-04	Road D1 (SB)	LHRS01	VOLUME	819587	832814	3.0	6.51	2.79	1.07E-4	7.57E-5	4.91E-5	3.84E-5	3.22E-5	5.62E-5	1.04E-4	3.21E-4	4.48E-4	3.75E-4	3.65E-4	3.47E-4	3.42E-4	3.47E-4	3.59E-4	3.95E-4	4.04E-4	4.27E-4	4.65E-4	3.54E-4	2.50E-4	2.06E-4	1.83E-4	1.56E-4
		LHRS02	VOLUME	819583	832800	3.0	6.51	2.79	1.07E-4	7.57E-5	4.91E-5	3.84E-5	3.22E-5	5.62E-5	1.04E-4	3.21E-4	4.48E-4	3.75E-4	3.65E-4	3.47E-4	3.42E-4	3.47E-4	3.59E-4	3.95E-4	4.04E-4	4.27E-4	4.65E-4	3.54E-4	2.50E-4	2.06E-4	1.83E-4	1.56E-4
		LHRS03	VOLUME																													

Emission Inventory for Portal Emission from the Proposed Full Enclosure (Residual NOx)

Enclosure ID	Description	Source ID	Type	Location		Release Height [1] (m)	Volume Source		Hourly Emission Rate (g/s)																							
				X	Y		Lateral Dim. (Sy) [2]	Vertical Dim. (Sz) [3]	Hr 00	Hr 01	Hr 02	Hr 03	Hr 04	Hr 05	Hr 06	Hr 07	Hr 08	Hr 09	Hr 10	Hr 11	Hr 12	Hr 13	Hr 14	Hr 15	Hr 16	Hr 17	Hr 18	Hr 19	Hr 20	Hr 21	Hr 22	Hr 23
				(m)	(m)		(m)	(m)	(g/s)	(g/s)	(g/s)	(g/s)	(g/s)	(g/s)	(g/s)	(g/s)	(g/s)	(g/s)	(g/s)	(g/s)	(g/s)	(g/s)	(g/s)	(g/s)	(g/s)	(g/s)	(g/s)	(g/s)	(g/s)	(g/s)	(g/s)	(g/s)
FE01-02	Tong Yan San Tsuen INT (NB) to Yuen Long Highway (WB)	LHSRW01	VOLUME	819567	833010	3.0	3.26	2.79	1.76E-4	1.25E-4	7.97E-5	7.09E-5	5.66E-5	8.51E-5	1.71E-4	5.08E-4	7.05E-4	5.96E-4	5.80E-4	5.43E-4	5.32E-4	5.42E-4	5.69E-4	6.12E-4	6.28E-4	6.69E-4	7.29E-4	5.78E-4	4.03E-4	3.36E-4	2.97E-4	2.55E-4
		LHSRW02	VOLUME	819563	833016	3.0	3.26	2.79	1.76E-4	1.25E-4	7.97E-5	7.09E-5	5.66E-5	8.51E-5	1.71E-4	5.08E-4	7.05E-4	5.96E-4	5.80E-4	5.43E-4	5.32E-4	5.42E-4	5.69E-4	6.12E-4	6.28E-4	6.69E-4	7.29E-4	5.78E-4	4.03E-4	3.36E-4	2.97E-4	2.55E-4
		LHSRW03	VOLUME	819553	833016	3.0	3.26	2.79	1.76E-4	1.25E-4	7.97E-5	7.09E-5	5.66E-5	8.51E-5	1.71E-4	5.08E-4	7.05E-4	5.96E-4	5.80E-4	5.43E-4	5.32E-4	5.42E-4	5.69E-4	6.12E-4	6.28E-4	6.69E-4	7.29E-4	5.78E-4	4.03E-4	3.36E-4	2.97E-4	2.55E-4
		LHSRW04	VOLUME	819548	833021	3.0	3.26	2.79	1.76E-4	1.25E-4	7.97E-5	7.09E-5	5.66E-5	8.51E-5	1.71E-4	5.08E-4	7.05E-4	5.96E-4	5.80E-4	5.43E-4	5.32E-4	5.42E-4	5.69E-4	6.12E-4	6.28E-4	6.69E-4	7.29E-4	5.78E-4	4.03E-4	3.36E-4	2.97E-4	2.55E-4
		LHSRW05	VOLUME	819544	833027	3.0	3.26	2.79	1.76E-4	1.25E-4	7.97E-5	7.09E-5	5.66E-5	8.51E-5	1.71E-4	5.08E-4	7.05E-4	5.96E-4	5.80E-4	5.43E-4	5.32E-4	5.42E-4	5.69E-4	6.12E-4	6.28E-4	6.69E-4	7.29E-4	5.78E-4	4.03E-4	3.36E-4	2.97E-4	2.55E-4
		LHSRW06	VOLUME	819539	833032	3.0	3.26	2.79	1.76E-4	1.25E-4	7.97E-5	7.09E-5	5.66E-5	8.51E-5	1.71E-4	5.08E-4	7.05E-4	5.96E-4	5.80E-4	5.43E-4	5.32E-4	5.42E-4	5.69E-4	6.12E-4	6.28E-4	6.69E-4	7.29E-4	5.78E-4	4.03E-4	3.36E-4	2.97E-4	2.55E-4
		LHSRW07	VOLUME	819534	833037	3.0	3.26	2.79	1.76E-4	1.25E-4	7.97E-5	7.09E-5	5.66E-5	8.51E-5	1.71E-4	5.08E-4	7.05E-4	5.96E-4	5.80E-4	5.43E-4	5.32E-4	5.42E-4	5.69E-4	6.12E-4	6.28E-4	6.69E-4	7.29E-4	5.78E-4	4.03E-4	3.36E-4	2.97E-4	2.55E-4
		LHSRW08	VOLUME	819530	833042	3.0	3.26	2.79	8.79E-5	6.25E-5	3.99E-5	3.54E-5	2.83E-5	4.25E-5	8.56E-5	2.54E-4	3.53E-4	2.98E-4	2.90E-4	2.71E-4	2.66E-4	2.71E-4	2.84E-4	3.06E-4	3.14E-4	3.34E-4	3.64E-4	2.89E-4	2.02E-4	1.68E-4	1.49E-4	1.27E-4
		LHSRW09	VOLUME	819525	833048	3.0	3.26	2.79	8.79E-5	6.25E-5	3.99E-5	3.54E-5	2.83E-5	4.25E-5	8.56E-5	2.54E-4	3.53E-4	2.98E-4	2.90E-4	2.71E-4	2.66E-4	2.71E-4	2.84E-4	3.06E-4	3.14E-4	3.34E-4	3.64E-4	2.89E-4	2.02E-4	1.68E-4	1.49E-4	1.27E-4
		LHSRW10	VOLUME	819520	833053	3.0	3.26	2.79	8.79E-5	6.25E-5	3.99E-5	3.54E-5	2.83E-5	4.25E-5	8.56E-5	2.54E-4	3.53E-4	2.98E-4	2.90E-4	2.71E-4	2.66E-4	2.71E-4	2.84E-4	3.06E-4	3.14E-4	3.34E-4	3.64E-4	2.89E-4	2.02E-4	1.68E-4	1.49E-4	1.27E-4
		LHSRW11	VOLUME	819516	833058	3.0	3.26	2.79	8.79E-5	6.25E-5	3.99E-5	3.54E-5	2.83E-5	4.25E-5	8.56E-5	2.54E-4	3.53E-4	2.98E-4	2.90E-4	2.71E-4	2.66E-4	2.71E-4	2.84E-4	3.06E-4	3.14E-4	3.34E-4	3.64E-4	2.89E-4	2.02E-4	1.68E-4	1.49E-4	1.27E-4
		LHSRW12	VOLUME	819511	833063	3.0	3.26	2.79	8.79E-5	6.25E-5	3.99E-5	3.54E-5	2.83E-5	4.25E-5	8.56E-5	2.54E-4	3.53E-4	2.98E-4	2.90E-4	2.71E-4	2.66E-4	2.71E-4	2.84E-4	3.06E-4	3.14E-4	3.34E-4	3.64E-4	2.89E-4	2.02E-4	1.68E-4	1.49E-4	1.27E-4
		LHSRW13	VOLUME	819507	833069	3.0	3.26	2.79	8.79E-5	6.25E-5	3.99E-5	3.54E-5	2.83E-5	4.25E-5	8.56E-5	2.54E-4	3.53E-4	2.98E-4	2.90E-4	2.71E-4	2.66E-4	2.71E-4	2.84E-4	3.06E-4	3.14E-4	3.34E-4	3.64E-4	2.89E-4	2.02E-4	1.68E-4	1.49E-4	1.27E-4
		LHSRW14	VOLUME	819502	833074	3.0	3.26	2.79	8.79E-5	6.25E-5	3.99E-5	3.54E-5	2.83E-5	4.25E-5	8.56E-5	2.54E-4	3.53E-4	2.98E-4	2.90E-4	2.71E-4	2.66E-4	2.71E-4	2.84E-4	3.06E-4	3.14E-4	3.34E-4	3.64E-4	2.89E-4	2.02E-4	1.68E-4	1.49E-4	1.27E-4
FE01-02	Tong Yan San Tsuen INT (NB) to Yuen Long Highway (EB)	LHSRE01	VOLUME	819600	833001	3.0	3.26	2.79	1.49E-4	1.06E-4	6.75E-5	6.00E-5	4.79E-5	7.20E-5	1.46E-4	4.30E-4	5.98E-4	5.06E-4	4.92E-4	4.60E-4	4.51E-4	4.59E-4	4.82E-4	5.19E-4	5.32E-4	5.67E-4	6.18E-4	4.90E-4	3.42E-4	2.85E-4	2.52E-4	2.16E-4
		LHSRE02	VOLUME	819601	833008	3.0	3.26	2.79	1.49E-4	1.06E-4	6.75E-5	6.00E-5	4.79E-5	7.20E-5	1.46E-4	4.30E-4	5.98E-4	5.06E-4	4.92E-4	4.60E-4	4.51E-4	4.59E-4	4.82E-4	5.19E-4	5.32E-4	5.67E-4	6.18E-4	4.90E-4	3.42E-4	2.85E-4	2.52E-4	2.16E-4
		LHSRE03	VOLUME	819601	833015	3.0	3.26	2.79	1.49E-4	1.06E-4	6.75E-5	6.00E-5	4.79E-5	7.20E-5	1.46E-4	4.30E-4	5.98E-4	5.06E-4	4.92E-4	4.60E-4	4.51E-4	4.59E-4	4.82E-4	5.19E-4	5.32E-4	5.67E-4	6.18E-4	4.90E-4	3.42E-4	2.85E-4	2.52E-4	2.16E-4
		LHSRE04	VOLUME	819601	833022	3.0	3.26	2.79	1.49E-4	1.06E-4	6.75E-5	6.00E-5	4.79E-5	7.20E-5	1.46E-4	4.30E-4	5.98E-4	5.06E-4	4.92E-4	4.60E-4	4.51E-4	4.59E-4	4.82E-4	5.19E-4	5.32E-4	5.67E-4	6.18E-4	4.90E-4	3.42E-4	2.85E-4	2.52E-4	2.16E-4
		LHSRE05	VOLUME	819601	833029	3.0	3.26	2.79	1.49E-4	1.06E-4	6.75E-5	6.00E-5	4.79E-5	7.20E-5	1.46E-4	4.30E-4	5.98E-4	5.06E-4	4.92E-4	4.60E-4	4.51E-4	4.59E-4	4.82E-4	5.19E-4	5.32E-4	5.67E-4	6.18E-4	4.90E-4	3.42E-4	2.85E-4	2.52E-4	2.16E-4
		LHSRE06	VOLUME	819601	833036	3.0	3.26	2.79	1.49E-4	1.06E-4	6.75E-5	6.00E-5	4.79E-5	7.20E-5	1.46E-4	4.30E-4	5.98E-4	5.06E-4	4.92E-4	4.60E-4	4.51E-4	4.59E-4	4.82E-4	5.19E-4	5.32E-4	5.67E-4	6.18E-4	4.90E-4	3.42E-4	2.85E-4	2.52E-4	2.16E-4
		LHSRE07	VOLUME	819601	833043	3.0	3.26	2.79	1.49E-4	1.06E-4	6.75E-5	6.00E-5	4.79E-5	7.20E-5	1.46E-4	4.30E-4	5.98E-4	5.06E-4	4.92E-4	4.60E-4	4.51E-4	4.59E-4	4.82E-4	5.19E-4	5.32E-4	5.67E-4	6.18E-4	4.90E-4	3.42E-4	2.85E-4	2.52E-4	2.16E-4
		LHSRE08	VOLUME	819601	833050	3.0	3.26	2.79	7.46E-5	5.31E-5	3.37E-5	3.00E-5	2.40E-5	3.60E-5	7.28E-5	2.15E-4	2.99E-4	2.53E-4	2.46E-4	2.30E-4	2.25E-4	2.29E-4	2.41E-4	2.59E-4	2.66E-4	2.84E-4	3.09E-4	2.45E-4	1.71E-4	1.42E-4	1.26E-4	1.08E-4
		LHSRE09	VOLUME	819601	833057	3.0	3.26	2.79	7.46E-5	5.31E-5	3.37E-5	3.00E-5	2.40E-5	3.60E-5	7.28E-5	2.15E-4	2.99E-4	2.53E-4	2.46E-4	2.30E-4	2.25E-4	2.29E-4	2.41E-4	2.59E-4	2.66E-4	2.84E-4	3.09E-4	2.45E-4	1.71E-4	1.42E-4	1.26E-4	1.08E-4
		LHSRE10	VOLUME	819602	833064	3.0	3.26	2.79	7.46E-5	5.31E-5	3.37E-5	3.00E-5	2.40E-5	3.60E-5	7.28E-5	2.15E-4	2.99E-4	2.53E-4	2.46E-4	2.30E-4	2.25E-4	2.29E-4	2.41E-4	2.59E-4	2.66E-4	2.84E-4	3.09E-4	2.45E-4	1.71E-4	1.42E-4	1.26E-4	1.08E-4
		LHSRE11	VOLUME	819602	833071	3.0	3.26	2.79	7.46E-5	5.31E-5	3.37E-5	3.00E-5	2.40E-5	3.60E-5	7.28E-5	2.15E-4	2.99E-4	2.53E-4	2.46E-4	2.30E-4	2.25E-4	2.29E-4	2.41E-4	2.59E-4	2.66E-4	2.84E-4	3.09E-4	2.45E-4	1.71E-4	1.42E-4	1.26E-4	1.08E-4
		LHSRE12	VOLUME	819602	833078	3.0	3.26	2.79	7.46E-5	5.31E-5	3.37E-5	3.00E-5	2.40E-5	3.60E-5	7.28E-5	2.15E-4	2.99E-4	2.53E-4	2.46E-4	2.30E-4	2.25E-4	2.29E-4	2.41E-4	2.59E-4	2.66E-4	2.84E-4	3.09E-4	2.45E-4	1.71E-4	1.42E-4	1.26E-4	1.08E-4
		LHSRE13	VOLUME	819602	833085	3.0	3.26	2.79	7.46E-5	5.31E-5	3.37E-5	3.00E-5	2.40E-5	3.60E-5	7.28E-5	2.15E-4	2.99E-4	2.53E-4	2.46E-4	2.30E-4	2.25E-4	2.29E-4	2.41E-4	2.59E-4	2.66E-4	2.84E-4	3.09E-4	2.45E-4	1.71E-4	1.42E-4	1.26E-4	1.08E-4
		LHSRE14	VOLUME	819602	833092	3.0	3.26	2.79	7.46E-5	5.31E-5	3.37E-5	3.00E-5	2.40E-5	3.60E-5	7.28E-5	2.15E-4	2.99E-4	2.53E-4	2.46E-4	2.30E-4	2.25E-4	2.29E-4	2.41E-4	2.59E-4	2.66E-4	2.84E-4	3.09E-4	2.45E-4	1.71E-4	1.42E-4	1.26E-4	1.08E-4
FE03-04	Road D1 (SB)	LHRS01	VOLUME	819587	832814	3.0	6.51	2.79	5.43E-4	3.91E-4	2.51E-4	2.10E-4	1.77E-4	2.79E-4	5.29E-4	1.60E-3	2.21E-3	1.86E-3	1.81E-3	1.71E-3	1.68E-3	1.71E-3	1.78E-3	1.93E-3	1.98E-3	2.09E-3	2.27E-3	1.79E-3	1.26E-3	1.05E-3	9.34E-4	7.95E-4
		LHRS02	VOLUME	819583	832800	3.0	6.51	2.79	5.43E-4	3.91E-4	2.51E-4	2.10E-4	1.77E-4	2.79E-4	5.29E-4	1.60E-3	2.21E-3	1.86E-3	1.81E-3	1.71E-3	1.68E-3	1.71E-3	1.78E-3	1.93E-3	1.98E-3	2.09E-3	2.27E-3	1.79E-3	1.26E-3	1.05E-3	9.34E-4	7.95E-4
		LHRS03	VOLUME	819580	832787	3.0	6.51	2.79	5.43E-4	3.91E-4	2.51E-4	2.10E-4	1.77E-4	2.79E-4	5.29E-4	1.60E-3	2.21E-3	1.86E-3	1.81E-3	1.71E-3	1.68E-3	1.71E-3	1.78E-3	1.93E-3	1.98E-3	2.09E-3	2.27E-3	1.79E-3	1.26E-3	1.05E-3	9.34E-4	7.95E-4
		LHRS04	VOLUME	819576	832773	3.0	6.51	2.79	5.43E-4	3.91E-4	2.51E-4	2.10E-4	1.77E-4	2.79E-4	5.29E-4	1.60E-3	2.21E-3	1.86E-3	1.81E-3	1.71E-3	1.68E-3											

Emission Inventory for Portal Emission from the Proposed Full Enclosure (RSP)

Enclosure ID	Description	Source ID	Type	Location		Volume Source			Hourly Emission Rate (g/s)																							
				X	Y	Release Height [1]	Lateral Dim. (Sy) [2]	Vertical Dim. (Sz) [3]	Hr 00	Hr 01	Hr 02	Hr 03	Hr 04	Hr 05	Hr 06	Hr 07	Hr 08	Hr 09	Hr 10	Hr 11	Hr 12	Hr 13	Hr 14	Hr 15	Hr 16	Hr 17	Hr 18	Hr 19	Hr 20	Hr 21	Hr 22	Hr 23
				(m)	(m)	(m)	(m)	(m)																								
FE01-02	Tong Yan San Tsuen INT (NB) to Yuen Long Highway (WB)	LHSRW01	VOLUME	819567	833010	3.0	3.26	2.79	7.04E-6	5.05E-6	3.21E-6	2.91E-6	2.23E-6	3.39E-6	6.80E-6	2.03E-5	2.82E-5	2.39E-5	2.34E-5	2.19E-5	2.16E-5	2.20E-5	2.31E-5	2.48E-5	2.55E-5	2.69E-5	2.93E-5	2.32E-5	1.62E-5	1.35E-5	1.20E-5	1.02E-5
		LHSRW02	VOLUME	819563	833016	3.0	3.26	2.79	7.04E-6	5.05E-6	3.21E-6	2.91E-6	2.23E-6	3.39E-6	6.80E-6	2.03E-5	2.82E-5	2.39E-5	2.34E-5	2.19E-5	2.16E-5	2.20E-5	2.31E-5	2.48E-5	2.55E-5	2.69E-5	2.93E-5	2.32E-5	1.62E-5	1.35E-5	1.20E-5	1.02E-5
		LHSRW03	VOLUME	819553	833016	3.0	3.26	2.79	7.04E-6	5.05E-6	3.21E-6	2.91E-6	2.23E-6	3.39E-6	6.80E-6	2.03E-5	2.82E-5	2.39E-5	2.34E-5	2.19E-5	2.16E-5	2.20E-5	2.31E-5	2.48E-5	2.55E-5	2.69E-5	2.93E-5	2.32E-5	1.62E-5	1.35E-5	1.20E-5	1.02E-5
		LHSRW04	VOLUME	819548	833021	3.0	3.26	2.79	7.04E-6	5.05E-6	3.21E-6	2.91E-6	2.23E-6	3.39E-6	6.80E-6	2.03E-5	2.82E-5	2.39E-5	2.34E-5	2.19E-5	2.16E-5	2.20E-5	2.31E-5	2.48E-5	2.55E-5	2.69E-5	2.93E-5	2.32E-5	1.62E-5	1.35E-5	1.20E-5	1.02E-5
		LHSRW05	VOLUME	819544	833027	3.0	3.26	2.79	7.04E-6	5.05E-6	3.21E-6	2.91E-6	2.23E-6	3.39E-6	6.80E-6	2.03E-5	2.82E-5	2.39E-5	2.34E-5	2.19E-5	2.16E-5	2.20E-5	2.31E-5	2.48E-5	2.55E-5	2.69E-5	2.93E-5	2.32E-5	1.62E-5	1.35E-5	1.20E-5	1.02E-5
		LHSRW06	VOLUME	819539	833032	3.0	3.26	2.79	7.04E-6	5.05E-6	3.21E-6	2.91E-6	2.23E-6	3.39E-6	6.80E-6	2.03E-5	2.82E-5	2.39E-5	2.34E-5	2.19E-5	2.16E-5	2.20E-5	2.31E-5	2.48E-5	2.55E-5	2.69E-5	2.93E-5	2.32E-5	1.62E-5	1.35E-5	1.20E-5	1.02E-5
		LHSRW07	VOLUME	819534	833037	3.0	3.26	2.79	7.04E-6	5.05E-6	3.21E-6	2.91E-6	2.23E-6	3.39E-6	6.80E-6	2.03E-5	2.82E-5	2.39E-5	2.34E-5	2.19E-5	2.16E-5	2.20E-5	2.31E-5	2.48E-5	2.55E-5	2.69E-5	2.93E-5	2.32E-5	1.62E-5	1.35E-5	1.20E-5	1.02E-5
		LHSRW08	VOLUME	819530	833042	3.0	3.26	2.79	3.52E-6	2.52E-6	1.61E-6	1.46E-6	1.11E-6	1.70E-6	3.40E-6	1.02E-5	1.41E-5	1.19E-5	1.17E-5	1.10E-5	1.08E-5	1.10E-5	1.16E-5	1.24E-5	1.27E-5	1.35E-5	1.46E-5	1.16E-5	8.10E-6	6.77E-6	5.98E-6	5.08E-6
		LHSRW09	VOLUME	819525	833048	3.0	3.26	2.79	3.52E-6	2.52E-6	1.61E-6	1.46E-6	1.11E-6	1.70E-6	3.40E-6	1.02E-5	1.41E-5	1.19E-5	1.17E-5	1.10E-5	1.08E-5	1.10E-5	1.16E-5	1.24E-5	1.27E-5	1.35E-5	1.46E-5	1.16E-5	8.10E-6	6.77E-6	5.98E-6	5.08E-6
		LHSRW10	VOLUME	819520	833053	3.0	3.26	2.79	3.52E-6	2.52E-6	1.61E-6	1.46E-6	1.11E-6	1.70E-6	3.40E-6	1.02E-5	1.41E-5	1.19E-5	1.17E-5	1.10E-5	1.08E-5	1.10E-5	1.16E-5	1.24E-5	1.27E-5	1.35E-5	1.46E-5	1.16E-5	8.10E-6	6.77E-6	5.98E-6	5.08E-6
		LHSRW11	VOLUME	819516	833058	3.0	3.26	2.79	3.52E-6	2.52E-6	1.61E-6	1.46E-6	1.11E-6	1.70E-6	3.40E-6	1.02E-5	1.41E-5	1.19E-5	1.17E-5	1.10E-5	1.08E-5	1.10E-5	1.16E-5	1.24E-5	1.27E-5	1.35E-5	1.46E-5	1.16E-5	8.10E-6	6.77E-6	5.98E-6	5.08E-6
		LHSRW12	VOLUME	819511	833063	3.0	3.26	2.79	3.52E-6	2.52E-6	1.61E-6	1.46E-6	1.11E-6	1.70E-6	3.40E-6	1.02E-5	1.41E-5	1.19E-5	1.17E-5	1.10E-5	1.08E-5	1.10E-5	1.16E-5	1.24E-5	1.27E-5	1.35E-5	1.46E-5	1.16E-5	8.10E-6	6.77E-6	5.98E-6	5.08E-6
		LHSRW13	VOLUME	819507	833069	3.0	3.26	2.79	3.52E-6	2.52E-6	1.61E-6	1.46E-6	1.11E-6	1.70E-6	3.40E-6	1.02E-5	1.41E-5	1.19E-5	1.17E-5	1.10E-5	1.08E-5	1.10E-5	1.16E-5	1.24E-5	1.27E-5	1.35E-5	1.46E-5	1.16E-5	8.10E-6	6.77E-6	5.98E-6	5.08E-6
		LHSRW14	VOLUME	819502	833074	3.0	3.26	2.79	3.52E-6	2.52E-6	1.61E-6	1.46E-6	1.11E-6	1.70E-6	3.40E-6	1.02E-5	1.41E-5	1.19E-5	1.17E-5	1.10E-5	1.08E-5	1.10E-5	1.16E-5	1.24E-5	1.27E-5	1.35E-5	1.46E-5	1.16E-5	8.10E-6	6.77E-6	5.98E-6	5.08E-6
	Tong Yan San Tsuen INT (NB) to Yuen Long Highway (EB)	LHSRE01	VOLUME	819600	833001	3.0	3.26	2.79	5.98E-6	4.30E-6	2.72E-6	2.46E-6	1.88E-6	2.87E-6	5.77E-6	1.72E-5	2.39E-5	2.02E-5	1.98E-5	1.86E-5	1.83E-5	1.86E-5	1.96E-5	2.10E-5	2.16E-5	2.28E-5	2.48E-5	1.96E-5	1.37E-5	1.15E-5	1.01E-5	8.63E-6
		LHSRE02	VOLUME	819601	833008	3.0	3.26	2.79	5.98E-6	4.30E-6	2.72E-6	2.46E-6	1.88E-6	2.87E-6	5.77E-6	1.72E-5	2.39E-5	2.02E-5	1.98E-5	1.86E-5	1.83E-5	1.86E-5	1.96E-5	2.10E-5	2.16E-5	2.28E-5	2.48E-5	1.96E-5	1.37E-5	1.15E-5	1.01E-5	8.63E-6
		LHSRE03	VOLUME	819601	833015	3.0	3.26	2.79	5.98E-6	4.30E-6	2.72E-6	2.46E-6	1.88E-6	2.87E-6	5.77E-6	1.72E-5	2.39E-5	2.02E-5	1.98E-5	1.86E-5	1.83E-5	1.86E-5	1.96E-5	2.10E-5	2.16E-5	2.28E-5	2.48E-5	1.96E-5	1.37E-5	1.15E-5	1.01E-5	8.63E-6
		LHSRE04	VOLUME	819601	833022	3.0	3.26	2.79	5.98E-6	4.30E-6	2.72E-6	2.46E-6	1.88E-6	2.87E-6	5.77E-6	1.72E-5	2.39E-5	2.02E-5	1.98E-5	1.86E-5	1.83E-5	1.86E-5	1.96E-5	2.10E-5	2.16E-5	2.28E-5	2.48E-5	1.96E-5	1.37E-5	1.15E-5	1.01E-5	8.63E-6
		LHSRE05	VOLUME	819601	833029	3.0	3.26	2.79	5.98E-6	4.30E-6	2.72E-6	2.46E-6	1.88E-6	2.87E-6	5.77E-6	1.72E-5	2.39E-5	2.02E-5	1.98E-5	1.86E-5	1.83E-5	1.86E-5	1.96E-5	2.10E-5	2.16E-5	2.28E-5	2.48E-5	1.96E-5	1.37E-5	1.15E-5	1.01E-5	8.63E-6
		LHSRE06	VOLUME	819601	833036	3.0	3.26	2.79	5.98E-6	4.30E-6	2.72E-6	2.46E-6	1.88E-6	2.87E-6	5.77E-6	1.72E-5	2.39E-5	2.02E-5	1.98E-5	1.86E-5	1.83E-5	1.86E-5	1.96E-5	2.10E-5	2.16E-5	2.28E-5	2.48E-5	1.96E-5	1.37E-5	1.15E-5	1.01E-5	8.63E-6
		LHSRE07	VOLUME	819601	833043	3.0	3.26	2.79	5.98E-6	4.30E-6	2.72E-6	2.46E-6	1.88E-6	2.87E-6	5.77E-6	1.72E-5	2.39E-5	2.02E-5	1.98E-5	1.86E-5	1.83E-5	1.86E-5	1.96E-5	2.10E-5	2.16E-5	2.28E-5	2.48E-5	1.96E-5	1.37E-5	1.15E-5	1.01E-5	8.63E-6
		LHSRE08	VOLUME	819601	833050	3.0	3.26	2.79	2.99E-6	2.15E-6	1.36E-6	1.23E-6	9.42E-7	1.43E-6	2.89E-6	8.61E-6	1.20E-5	1.01E-5	9.92E-6	9.28E-6	9.14E-6	9.31E-6	9.79E-6	1.05E-5	1.08E-5	1.14E-5	1.24E-5	9.82E-6	6.86E-6	5.74E-6	5.07E-6	4.31E-6
		LHSRE09	VOLUME	819601	833057	3.0	3.26	2.79	2.99E-6	2.15E-6	1.36E-6	1.23E-6	9.42E-7	1.43E-6	2.89E-6	8.61E-6	1.20E-5	1.01E-5	9.92E-6	9.28E-6	9.14E-6	9.31E-6	9.79E-6	1.05E-5	1.08E-5	1.14E-5	1.24E-5	9.82E-6	6.86E-6	5.74E-6	5.07E-6	4.31E-6
		LHSRE10	VOLUME	819602	833064	3.0	3.26	2.79	2.99E-6	2.15E-6	1.36E-6	1.23E-6	9.42E-7	1.43E-6	2.89E-6	8.61E-6	1.20E-5	1.01E-5	9.92E-6	9.28E-6	9.14E-6	9.31E-6	9.79E-6	1.05E-5	1.08E-5	1.14E-5	1.24E-5	9.82E-6	6.86E-6	5.74E-6	5.07E-6	4.31E-6
		LHSRE11	VOLUME	819602	833071	3.0	3.26	2.79	2.99E-6	2.15E-6	1.36E-6	1.23E-6	9.42E-7	1.43E-6	2.89E-6	8.61E-6	1.20E-5	1.01E-5	9.92E-6	9.28E-6	9.14E-6	9.31E-6	9.79E-6	1.05E-5	1.08E-5	1.14E-5	1.24E-5	9.82E-6	6.86E-6	5.74E-6	5.07E-6	4.31E-6
		LHSRE12	VOLUME	819602	833078	3.0	3.26	2.79	2.99E-6	2.15E-6	1.36E-6	1.23E-6	9.42E-7	1.43E-6	2.89E-6	8.61E-6	1.20E-5	1.01E-5	9.92E-6	9.28E-6	9.14E-6	9.31E-6	9.79E-6	1.05E-5	1.08E-5	1.14E-5	1.24E-5	9.82E-6	6.86E-6	5.74E-6	5.07E-6	4.31E-6
		LHSRE13	VOLUME	819602	833085	3.0	3.26	2.79	2.99E-6	2.15E-6	1.36E-6	1.23E-6	9.42E-7	1.43E-6	2.89E-6	8.61E-6	1.20E-5	1.01E-5	9.92E-6	9.28E-6	9.14E-6	9.31E-6	9.79E-6	1.05E-5	1.08E-5	1.14E-5	1.24E-5	9.82E-6	6.86E-6	5.74E-6	5.07E-6	4.31E-6
		LHSRE14	VOLUME	819602	833092	3.0	3.26	2.79	2.99E-6	2.15E-6	1.36E-6	1.23E-6	9.42E-7	1.43E-6	2.89E-6	8.61E-6	1.20E-5	1.01E-5	9.92E-6	9.28E-6	9.14E-6	9.31E-6	9.79E-6	1.05E-5	1.08E-5	1.14E-5	1.24E-5	9.82E-6	6.86E-6	5.74E-6	5.07E-6	4.31E-6
FE03-04	Road D1 (SB)	LHRS01	VOLUME	819587	832814	3.0	6.51	2.79	2.16E-5	1.55E-5	1.01E-5	8.20E-6	7.04E-6	1.12E-5	2.09E-5	6.41E-5	8.86E-5	7.48E-5	7.32E-5	6.96E-5	6.84E-5	6.97E-5	7.22E-5	7.85E-5	8.03E-5	8.44E-5	9.15E-5	7.12E-5	5.03E-5	4.17E-5	3.71E-5	3.17E-5
		LHRS02	VOLUME	819583	832800	3.0	6.51	2.79	2.16E-5	1.55E-5	1.01E-5	8.20E-6	7.04E-6	1.12E-5	2.09E-5	6.41E-5	8.86E-5	7.48E-5	7.32E-5	6.96E-5	6.84E-5	6.97E-5	7.22E-5	7.85E-5	8.03E-5	8.44E-5	9.15E-5	7.12E-5	5.03E-5	4.17E-5	3.71E-5	3.17E-5
		LHRS03	VOLUME	819580	832787	3.0	6.51	2.79	2.16E-5	1.55E-5	1.01E-5	8.20E-6	7.04E-6	1.12E-5	2.09E-5	6.41E-5	8.86E-5	7.48E-5	7.32E-5	6.96E-5	6.84E-5	6.97E-5	7.22E-5	7.85E-5	8.03E-5	8.44E-5	9.15E-5	7.12E-5	5.03E-5	4.17E-5	3.71E-5	3.17E-5
		LHRS04	VOLUME	819576	832773	3.0	6.51	2.79	2.16E-5	1.55E-5	1.01E-5	8.20E-6	7.04E-6	1.12E-5	2.09E-5	6.41E-5	8.86E-5	7.48E-5	7.32E-5	6.96E-5	6.84E-5	6.97E-5	7.22E-5	7.85E-5	8.03E-5	8.44E-5	9.15E-5	7.12E-5	5.03E-5	4.17E		

Emission Inventory for Portal Emission from the Proposed Full Enclosure (FSP)

Enclosure ID	Description	Source ID	Type	Location		Release Height [1] (m)	Lateral Dim. (Sy) [2] (m)	Vertical Dim. (Sz) [3] (m)	Hourly Emission Rate (g/s)																							
				X	Y				Hr 00	Hr 01	Hr 02	Hr 03	Hr 04	Hr 05	Hr 06	Hr 07	Hr 08	Hr 09	Hr 10	Hr 11	Hr 12	Hr 13	Hr 14	Hr 15	Hr 16	Hr 17	Hr 18	Hr 19	Hr 20	Hr 21	Hr 22	Hr 23
				(m)	(m)																											
FE01-02	Tong Yan San Tsuen INT (NB) to Yuen Long Highway (WB)	LHSRW01	VOLUME	819567	833010	3.0	3.26	2.79	6.50E-6	4.66E-6	2.97E-6	2.69E-6	2.06E-6	3.13E-6	6.27E-6	1.88E-5	2.60E-5	2.20E-5	2.16E-5	2.02E-5	1.99E-5	2.03E-5	2.13E-5	2.29E-5	2.35E-5	2.49E-5	2.70E-5	2.14E-5	1.49E-5	1.25E-5	1.10E-5	9.38E-6
		LHSRW02	VOLUME	819563	833016	3.0	3.26	2.79	6.50E-6	4.66E-6	2.97E-6	2.69E-6	2.06E-6	3.13E-6	6.27E-6	1.88E-5	2.60E-5	2.20E-5	2.16E-5	2.02E-5	1.99E-5	2.03E-5	2.13E-5	2.29E-5	2.35E-5	2.49E-5	2.70E-5	2.14E-5	1.49E-5	1.25E-5	1.10E-5	9.38E-6
		LHSRW03	VOLUME	819553	833016	3.0	3.26	2.79	6.50E-6	4.66E-6	2.97E-6	2.69E-6	2.06E-6	3.13E-6	6.27E-6	1.88E-5	2.60E-5	2.20E-5	2.16E-5	2.02E-5	1.99E-5	2.03E-5	2.13E-5	2.29E-5	2.35E-5	2.49E-5	2.70E-5	2.14E-5	1.49E-5	1.25E-5	1.10E-5	9.38E-6
		LHSRW04	VOLUME	819548	833021	3.0	3.26	2.79	6.50E-6	4.66E-6	2.97E-6	2.69E-6	2.06E-6	3.13E-6	6.27E-6	1.88E-5	2.60E-5	2.20E-5	2.16E-5	2.02E-5	1.99E-5	2.03E-5	2.13E-5	2.29E-5	2.35E-5	2.49E-5	2.70E-5	2.14E-5	1.49E-5	1.25E-5	1.10E-5	9.38E-6
		LHSRW05	VOLUME	819544	833027	3.0	3.26	2.79	6.50E-6	4.66E-6	2.97E-6	2.69E-6	2.06E-6	3.13E-6	6.27E-6	1.88E-5	2.60E-5	2.20E-5	2.16E-5	2.02E-5	1.99E-5	2.03E-5	2.13E-5	2.29E-5	2.35E-5	2.49E-5	2.70E-5	2.14E-5	1.49E-5	1.25E-5	1.10E-5	9.38E-6
		LHSRW06	VOLUME	819539	833032	3.0	3.26	2.79	6.50E-6	4.66E-6	2.97E-6	2.69E-6	2.06E-6	3.13E-6	6.27E-6	1.88E-5	2.60E-5	2.20E-5	2.16E-5	2.02E-5	1.99E-5	2.03E-5	2.13E-5	2.29E-5	2.35E-5	2.49E-5	2.70E-5	2.14E-5	1.49E-5	1.25E-5	1.10E-5	9.38E-6
		LHSRW07	VOLUME	819534	833037	3.0	3.26	2.79	6.50E-6	4.66E-6	2.97E-6	2.69E-6	2.06E-6	3.13E-6	6.27E-6	1.88E-5	2.60E-5	2.20E-5	2.16E-5	2.02E-5	1.99E-5	2.03E-5	2.13E-5	2.29E-5	2.35E-5	2.49E-5	2.70E-5	2.14E-5	1.49E-5	1.25E-5	1.10E-5	9.38E-6
		LHSRW08	VOLUME	819530	833042	3.0	3.26	2.79	3.25E-6	2.33E-6	1.48E-6	1.34E-6	1.03E-6	1.56E-6	3.14E-6	9.38E-6	1.30E-5	1.10E-5	1.08E-5	1.01E-5	9.95E-6	1.01E-5	1.07E-5	1.14E-5	1.18E-5	1.24E-5	1.35E-5	1.07E-5	7.47E-6	6.25E-6	5.52E-6	4.69E-6
		LHSRW09	VOLUME	819525	833048	3.0	3.26	2.79	3.25E-6	2.33E-6	1.48E-6	1.34E-6	1.03E-6	1.56E-6	3.14E-6	9.38E-6	1.30E-5	1.10E-5	1.08E-5	1.01E-5	9.95E-6	1.01E-5	1.07E-5	1.14E-5	1.18E-5	1.24E-5	1.35E-5	1.07E-5	7.47E-6	6.25E-6	5.52E-6	4.69E-6
		LHSRW10	VOLUME	819520	833053	3.0	3.26	2.79	3.25E-6	2.33E-6	1.48E-6	1.34E-6	1.03E-6	1.56E-6	3.14E-6	9.38E-6	1.30E-5	1.10E-5	1.08E-5	1.01E-5	9.95E-6	1.01E-5	1.07E-5	1.14E-5	1.18E-5	1.24E-5	1.35E-5	1.07E-5	7.47E-6	6.25E-6	5.52E-6	4.69E-6
		LHSRW11	VOLUME	819516	833058	3.0	3.26	2.79	3.25E-6	2.33E-6	1.48E-6	1.34E-6	1.03E-6	1.56E-6	3.14E-6	9.38E-6	1.30E-5	1.10E-5	1.08E-5	1.01E-5	9.95E-6	1.01E-5	1.07E-5	1.14E-5	1.18E-5	1.24E-5	1.35E-5	1.07E-5	7.47E-6	6.25E-6	5.52E-6	4.69E-6
		LHSRW12	VOLUME	819511	833063	3.0	3.26	2.79	3.25E-6	2.33E-6	1.48E-6	1.34E-6	1.03E-6	1.56E-6	3.14E-6	9.38E-6	1.30E-5	1.10E-5	1.08E-5	1.01E-5	9.95E-6	1.01E-5	1.07E-5	1.14E-5	1.18E-5	1.24E-5	1.35E-5	1.07E-5	7.47E-6	6.25E-6	5.52E-6	4.69E-6
		LHSRW13	VOLUME	819507	833069	3.0	3.26	2.79	3.25E-6	2.33E-6	1.48E-6	1.34E-6	1.03E-6	1.56E-6	3.14E-6	9.38E-6	1.30E-5	1.10E-5	1.08E-5	1.01E-5	9.95E-6	1.01E-5	1.07E-5	1.14E-5	1.18E-5	1.24E-5	1.35E-5	1.07E-5	7.47E-6	6.25E-6	5.52E-6	4.69E-6
		LHSRW14	VOLUME	819502	833074	3.0	3.26	2.79	3.25E-6	2.33E-6	1.48E-6	1.34E-6	1.03E-6	1.56E-6	3.14E-6	9.38E-6	1.30E-5	1.10E-5	1.08E-5	1.01E-5	9.95E-6	1.01E-5	1.07E-5	1.14E-5	1.18E-5	1.24E-5	1.35E-5	1.07E-5	7.47E-6	6.25E-6	5.52E-6	4.69E-6
	Tong Yan San Tsuen INT (NB) to Yuen Long Highway (EB)	LHSRE01	VOLUME	819600	833001	3.0	3.26	2.79	5.52E-6	3.96E-6	2.51E-6	2.27E-6	1.74E-6	2.65E-6	5.33E-6	1.59E-5	2.21E-5	1.87E-5	1.83E-5	1.71E-5	1.69E-5	1.72E-5	1.81E-5	1.94E-5	2.00E-5	2.11E-5	2.29E-5	1.81E-5	1.27E-5	1.06E-5	9.36E-6	7.96E-6
		LHSRE02	VOLUME	819601	833008	3.0	3.26	2.79	5.52E-6	3.96E-6	2.51E-6	2.27E-6	1.74E-6	2.65E-6	5.33E-6	1.59E-5	2.21E-5	1.87E-5	1.83E-5	1.71E-5	1.69E-5	1.72E-5	1.81E-5	1.94E-5	2.00E-5	2.11E-5	2.29E-5	1.81E-5	1.27E-5	1.06E-5	9.36E-6	7.96E-6
		LHSRE03	VOLUME	819601	833015	3.0	3.26	2.79	5.52E-6	3.96E-6	2.51E-6	2.27E-6	1.74E-6	2.65E-6	5.33E-6	1.59E-5	2.21E-5	1.87E-5	1.83E-5	1.71E-5	1.69E-5	1.72E-5	1.81E-5	1.94E-5	2.00E-5	2.11E-5	2.29E-5	1.81E-5	1.27E-5	1.06E-5	9.36E-6	7.96E-6
		LHSRE04	VOLUME	819601	833022	3.0	3.26	2.79	5.52E-6	3.96E-6	2.51E-6	2.27E-6	1.74E-6	2.65E-6	5.33E-6	1.59E-5	2.21E-5	1.87E-5	1.83E-5	1.71E-5	1.69E-5	1.72E-5	1.81E-5	1.94E-5	2.00E-5	2.11E-5	2.29E-5	1.81E-5	1.27E-5	1.06E-5	9.36E-6	7.96E-6
		LHSRE05	VOLUME	819601	833029	3.0	3.26	2.79	5.52E-6	3.96E-6	2.51E-6	2.27E-6	1.74E-6	2.65E-6	5.33E-6	1.59E-5	2.21E-5	1.87E-5	1.83E-5	1.71E-5	1.69E-5	1.72E-5	1.81E-5	1.94E-5	2.00E-5	2.11E-5	2.29E-5	1.81E-5	1.27E-5	1.06E-5	9.36E-6	7.96E-6
		LHSRE06	VOLUME	819601	833036	3.0	3.26	2.79	5.52E-6	3.96E-6	2.51E-6	2.27E-6	1.74E-6	2.65E-6	5.33E-6	1.59E-5	2.21E-5	1.87E-5	1.83E-5	1.71E-5	1.69E-5	1.72E-5	1.81E-5	1.94E-5	2.00E-5	2.11E-5	2.29E-5	1.81E-5	1.27E-5	1.06E-5	9.36E-6	7.96E-6
		LHSRE07	VOLUME	819601	833043	3.0	3.26	2.79	5.52E-6	3.96E-6	2.51E-6	2.27E-6	1.74E-6	2.65E-6	5.33E-6	1.59E-5	2.21E-5	1.87E-5	1.83E-5	1.71E-5	1.69E-5	1.72E-5	1.81E-5	1.94E-5	2.00E-5	2.11E-5	2.29E-5	1.81E-5	1.27E-5	1.06E-5	9.36E-6	7.96E-6
		LHSRE08	VOLUME	819601	833050	3.0	3.26	2.79	2.76E-6	1.98E-6	1.25E-6	1.14E-6	8.70E-7	1.32E-6	2.66E-6	7.95E-6	1.10E-5	9.34E-6	9.15E-6	8.57E-6	8.43E-6	8.59E-6	9.04E-6	9.70E-6	9.98E-6	1.05E-5	1.15E-5	9.06E-6	6.33E-6	5.30E-6	4.68E-6	3.98E-6
		LHSRE09	VOLUME	819601	833057	3.0	3.26	2.79	2.76E-6	1.98E-6	1.25E-6	1.14E-6	8.70E-7	1.32E-6	2.66E-6	7.95E-6	1.10E-5	9.34E-6	9.15E-6	8.57E-6	8.43E-6	8.59E-6	9.04E-6	9.70E-6	9.98E-6	1.05E-5	1.15E-5	9.06E-6	6.33E-6	5.30E-6	4.68E-6	3.98E-6
		LHSRE10	VOLUME	819602	833064	3.0	3.26	2.79	2.76E-6	1.98E-6	1.25E-6	1.14E-6	8.70E-7	1.32E-6	2.66E-6	7.95E-6	1.10E-5	9.34E-6	9.15E-6	8.57E-6	8.43E-6	8.59E-6	9.04E-6	9.70E-6	9.98E-6	1.05E-5	1.15E-5	9.06E-6	6.33E-6	5.30E-6	4.68E-6	3.98E-6
		LHSRE11	VOLUME	819602	833071	3.0	3.26	2.79	2.76E-6	1.98E-6	1.25E-6	1.14E-6	8.70E-7	1.32E-6	2.66E-6	7.95E-6	1.10E-5	9.34E-6	9.15E-6	8.57E-6	8.43E-6	8.59E-6	9.04E-6	9.70E-6	9.98E-6	1.05E-5	1.15E-5	9.06E-6	6.33E-6	5.30E-6	4.68E-6	3.98E-6
		LHSRE12	VOLUME	819602	833078	3.0	3.26	2.79	2.76E-6	1.98E-6	1.25E-6	1.14E-6	8.70E-7	1.32E-6	2.66E-6	7.95E-6	1.10E-5	9.34E-6	9.15E-6	8.57E-6	8.43E-6	8.59E-6	9.04E-6	9.70E-6	9.98E-6	1.05E-5	1.15E-5	9.06E-6	6.33E-6	5.30E-6	4.68E-6	3.98E-6
		LHSRE13	VOLUME	819602	833085	3.0	3.26	2.79	2.76E-6	1.98E-6	1.25E-6	1.14E-6	8.70E-7	1.32E-6	2.66E-6	7.95E-6	1.10E-5	9.34E-6	9.15E-6	8.57E-6	8.43E-6	8.59E-6	9.04E-6	9.70E-6	9.98E-6	1.05E-5	1.15E-5	9.06E-6	6.33E-6	5.30E-6	4.68E-6	3.98E-6
		LHSRE14	VOLUME	819602	833092	3.0	3.26	2.79	2.76E-6	1.98E-6	1.25E-6	1.14E-6	8.70E-7	1.32E-6	2.66E-6	7.95E-6	1.10E-5	9.34E-6	9.15E-6	8.57E-6	8.43E-6	8.59E-6	9.04E-6	9.70E-6	9.98E-6	1.05E-5	1.15E-5	9.06E-6	6.33E-6	5.30E-6	4.68E-6	3.98E-6
FE03-04	Road D1 (SB)	LHRS01	VOLUME	819587	832814	3.0	6.51	2.79	2.00E-5	1.43E-5	9.31E-6	7.57E-6	6.49E-6	1.03E-5	1.93E-5	5.92E-5	8.18E-5	6.90E-5	6.75E-5	6.42E-5	6.31E-5	6.43E-5	6.66E-5	7.24E-5	7.40E-5	7.78E-5	8.44E-5	6.57E-5	4.64E-5	3.84E-5	3.43E-5	2.93E-5
		LHRS02	VOLUME	819583	832800	3.0	6.51	2.79	2.00E-5	1.43E-5	9.31E-6	7.57E-6	6.49E-6	1.03E-5	1.93E-5	5.92E-5	8.18E-5	6.90E-5	6.75E-5	6.42E-5	6.31E-5	6.43E-5	6.66E-5	7.24E-5	7.40E-5	7.78E-5	8.44E-5	6.57E-5	4.64E-5	3.84E-5		

Sample Calculation of Portal Emission from the Proposed Underpass of Hour 08

Initial NO2 Emission

Types	Description	Link ID	Tunnel Length	Tunnel Length	Traffic Flow	Emission Factor	Total Emission		Portal Emission	
			(m)	(mile)	(veh/hr)	(g/mile-veh)	(g/hr)	(g/s)	1st 50m (g/s)	2nd 50m (g/s)
Underpass	Tin Shui Wai West INT (WB)	5616	158	0.098	709	0.064	4.5	0.0012	---	---

Residual NOx Emission

Enclosure ID	Description	Link ID	Tunnel Length	Tunnel Length	Traffic Flow	Emission Factor	Total Emission		Portal Emission	
			(m)	(mile)	(veh/hr)	(g/mile-veh)	(g/hr)	(g/s)	1st 50m (g/s)	2nd 50m (g/s)
Underpass	Tin Shui Wai West INT (WB)	5616	158	0.098	709	0.293	20.4	0.0057	---	---

RSP Emission

Enclosure ID	Description	Link ID	Tunnel Length	Tunnel Length	Traffic Flow	Emission Factor	Total Emission		Portal Emission	
			(m)	(mile)	(veh/hr)	(g/mile-veh)	(g/hr)	(g/s)	1st 50m (g/s)	2nd 50m (g/s)
Underpass	Tin Shui Wai West INT (WB)	5616	158	0.098	709	0.014	0.95	0.0003	---	---

FSP Emission

Enclosure ID	Description	Link ID	Tunnel Length	Tunnel Length	Traffic Flow	Emission Factor	Total Emission		Portal Emission	
			(m)	(mile)	(veh/hr)	(g/mile-veh)	(g/hr)	(g/s)	1st 50m (g/s)	2nd 50m (g/s)
Underpass	Tin Shui Wai West INT (WB)	5616	158	0.098	709	0.013	0.88	0.0002	---	---

