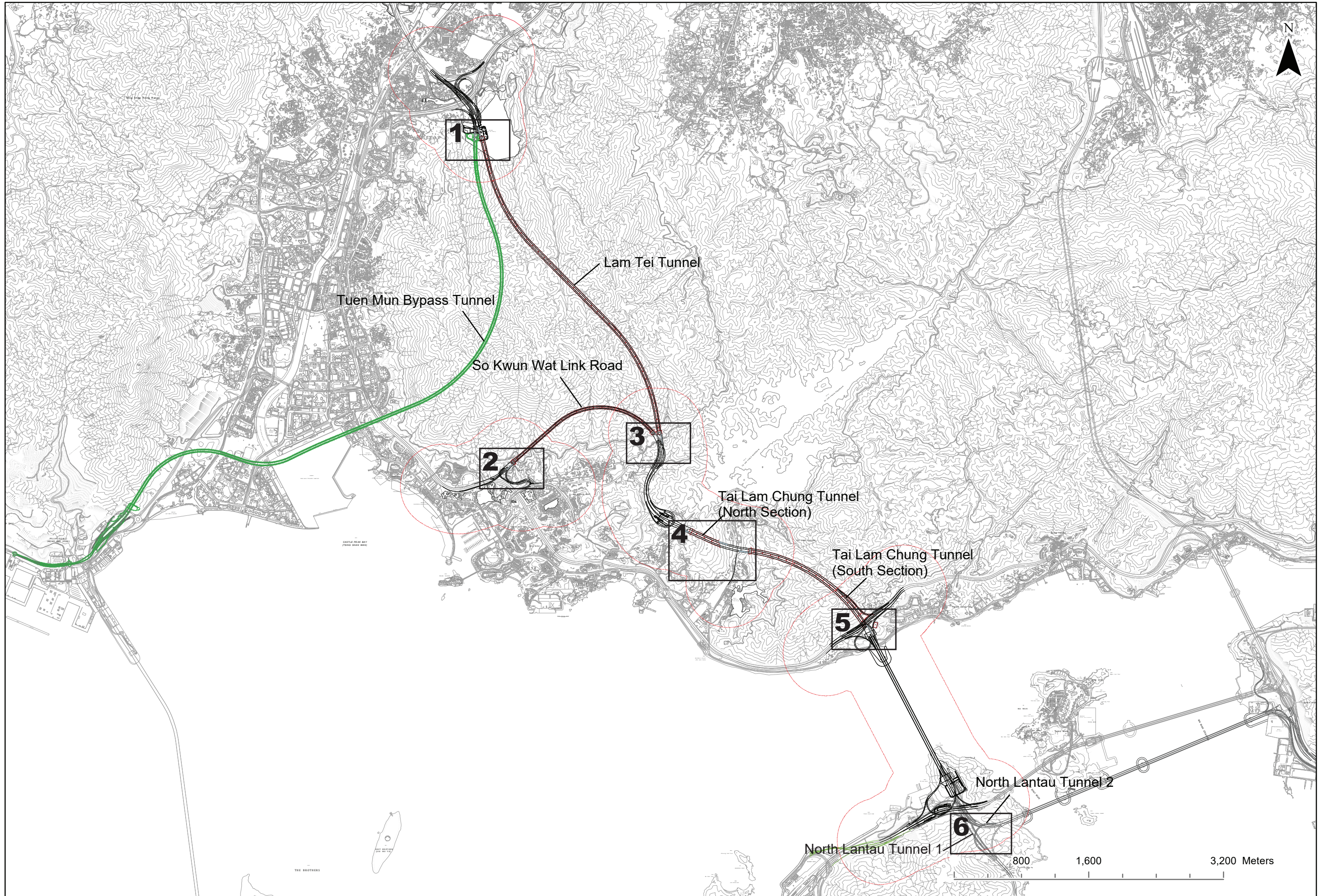


**Annex - 1**

Source Location for Portals and  
Ventilation Buildings







1



Tuen Mun Bypass Tunnel  
North Portal  
(TMBN\_V01-09)

Lam Tei Tunnel  
North Portal  
(LTN\_V01-09)

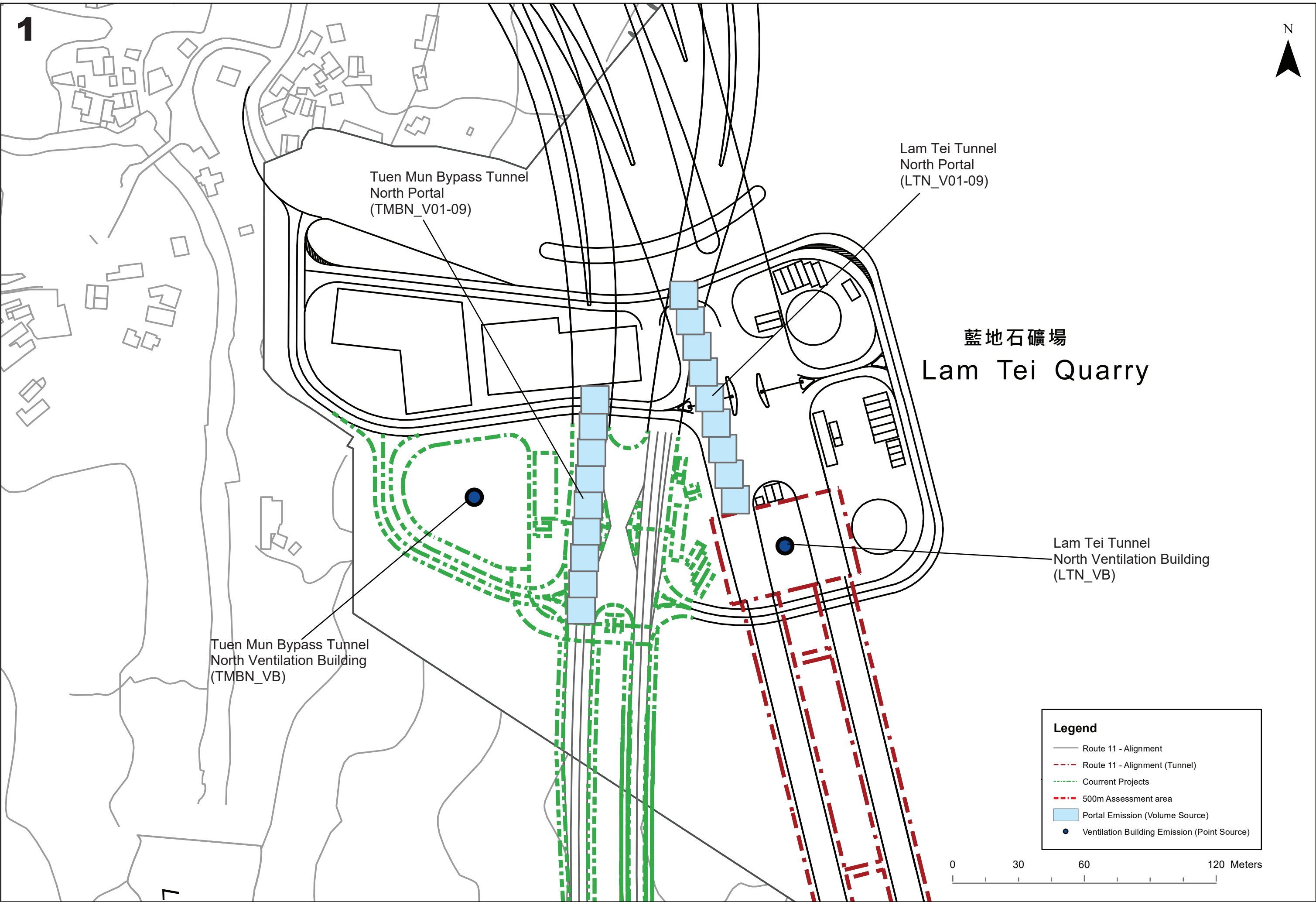
藍地石礦場  
Lam Tei Quarry

Lam Tei Tunnel  
North Ventilation Building  
(LTN\_VB)

Tuen Mun Bypass Tunnel  
North Ventilation Building  
(TMBN\_VB)

**Legend**

- Route 11 - Alignment
- - - Route 11 - Alignment (Tunnel)
- · - · - Current Projects
- · - · - 500m Assessment area
- Portal Emission (Volume Source)
- Ventilation Building Emission (Point Source)

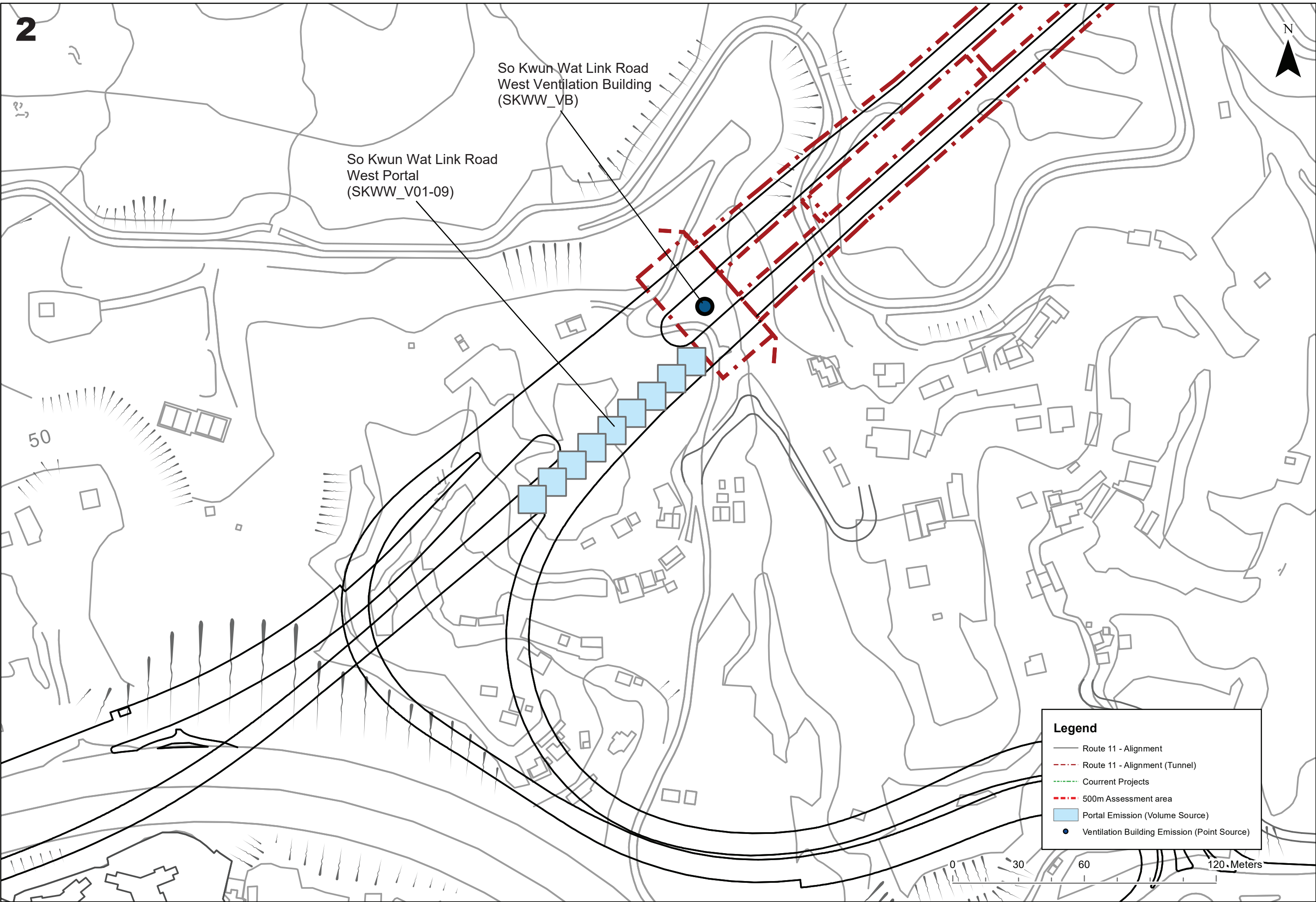


So Kwun Wat Link Road  
West Ventilation Building  
(SKWW\_VB)

So Kwun Wat Link Road  
West Portal  
(SKWW\_V01-09)

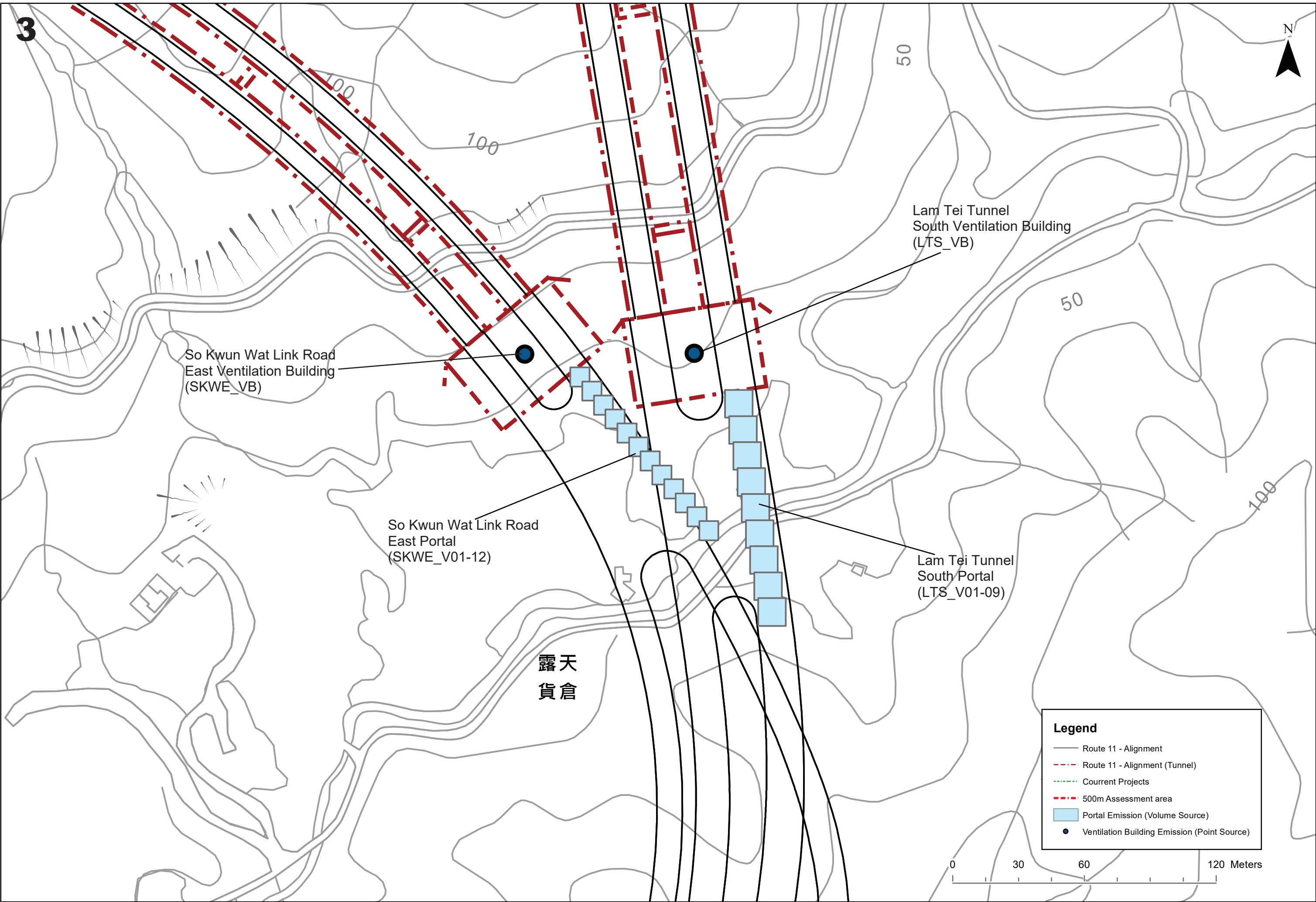
**Legend**

- Route 11 - Alignment
- - - Route 11 - Alignment (Tunnel)
- - - Current Projects
- - - 500m Assessment area
- Portal Emission (Volume Source)
- Ventilation Building Emission (Point Source)





3



So Kwun Wat Link Road  
East Ventilation Building  
(SKWE\_VB)

Lam Tei Tunnel  
South Ventilation Building  
(LTS\_VB)

So Kwun Wat Link Road  
East Portal  
(SKWE\_V01-12)

Lam Tei Tunnel  
South Portal  
(LTS\_V01-09)

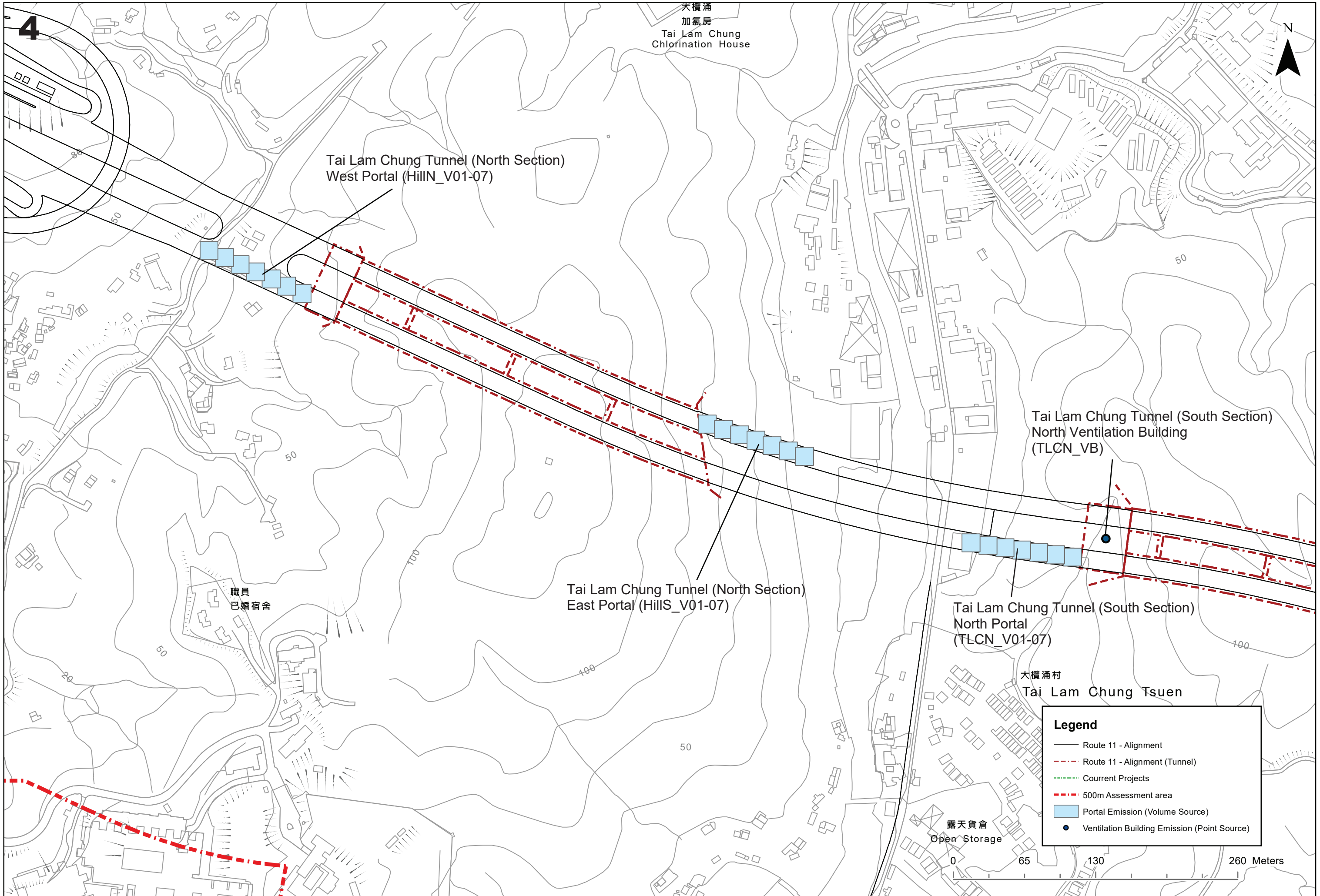
露天  
貨倉

**Legend**

- Route 11 - Alignment
- - - Route 11 - Alignment (Tunnel)
- - - Current Projects
- - - 500m Assessment area
- Portal Emission (Volume Source)
- Ventilation Building Emission (Point Source)







4

N

Tai Lam Chung Tunnel (North Section)  
West Portal (HillN\_V01-07)

Tai Lam Chung Tunnel (South Section)  
North Ventilation Building  
(TLCN\_VB)

Tai Lam Chung Tunnel (North Section)  
East Portal (Hills\_V01-07)

Tai Lam Chung Tunnel (South Section)  
North Portal  
(TLCN\_V01-07)

職員  
已婚宿舍

大欄涌村  
Tai Lam Chung Tsuen

露天貨倉  
Open Storage

**Legend**

- Route 11 - Alignment
- Route 11 - Alignment (Tunnel)
- Current Projects
- 500m Assessment area
- Portal Emission (Volume Source)
- Ventilation Building Emission (Point Source)

0 65 130 260 Meters



5

菜園村  
Choi Yuen  
Tsuen

Tai Lam Chung Tunnel (South Section)  
Southeast Portal  
(TLCSE\_V01-12)

傲庭峰  
The Top

Tai Lam Chung Tunnel (South Section)  
South Ventilation Building  
(TLCS\_VB)

Tai Lam Chung Tunnel (South Section)  
Southwest Portal  
(TLCSW\_V01-09)

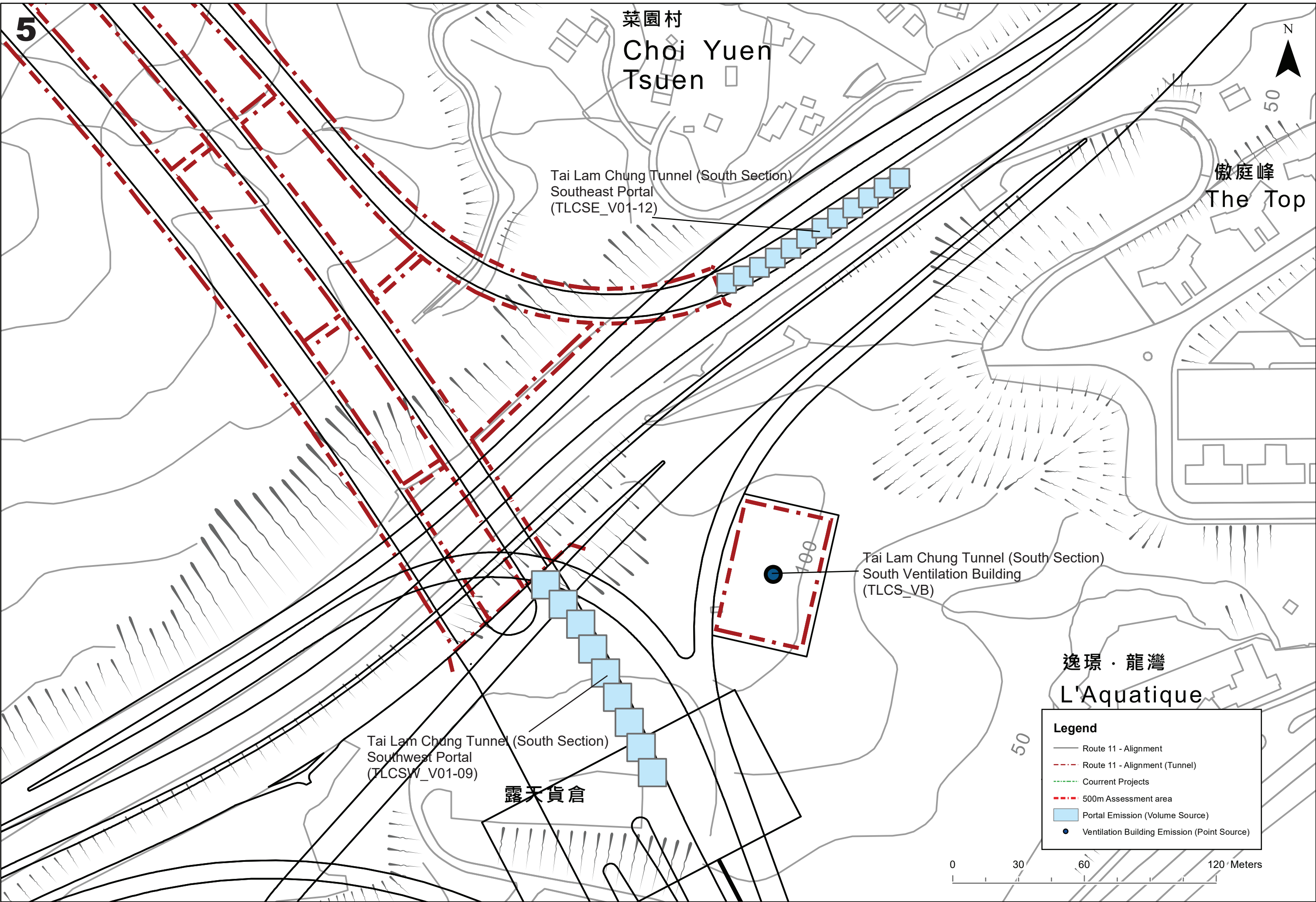
露天貨倉

逸璟·龍灣  
L'Aquatique

**Legend**

- Route 11 - Alignment
- - - Route 11 - Alignment (Tunnel)
- · - · - Current Projects
- · - · - 500m Assessment area
- Portal Emission (Volume Source)
- Ventilation Building Emission (Point Source)

0 30 60 120 Meters





6



North Lantau Tunnel 1  
North Portal  
(NLN\_V01-14)

North Lantau Tunnel 2  
Northeast Portal  
(NLNE\_V01-14)

Tsing Yi Lantau Link

Hong Kong Island West -  
Northeast Lantau Link  
(HKIW - NEL)

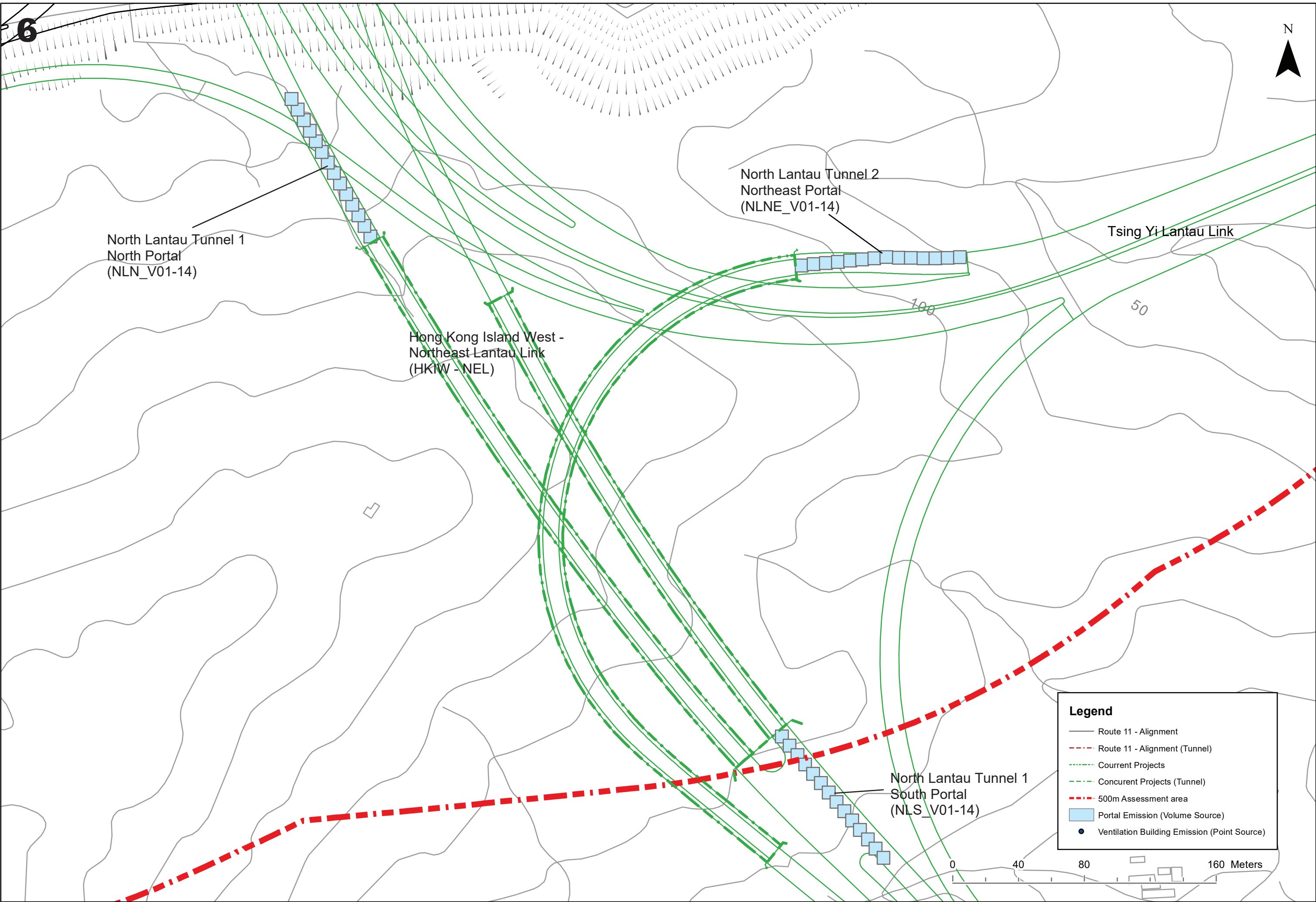
100

50

North Lantau Tunnel 1  
South Portal  
(NLS\_V01-14)

**Legend**

- Route 11 - Alignment
- - - Route 11 - Alignment (Tunnel)
- ⋯ Current Projects
- ⋯ Concurent Projects (Tunnel)
- · - · 500m Assessment area
- Portal Emission (Volume Source)
- Ventilation Building Emission (Point Source)





**Annex - 2**

Emission Calculation for  
Portals

**Emission Inventory for Tunnel Portal**

Tunnel Section	Description	Source ID	Type	X	Y	Base Elevation	Release Height	Lateral Dim. (Sy)	Vertical Dim. (Sz)	Emission Split
				(m)	(m)	(m)	(m)	(m)	(m)	
LT	Lam Tei Tunnel North Portal (LTT - North Portal)	LTN_V01	VOLUME	817300	830413	34.1	2.55	5.58	2.37	Emission of first 50m * (1 / 4.5)
		LTN_V02	VOLUME	817297	830425	34.1	2.55	5.58	2.37	
		LTN_V03	VOLUME	817294	830436	34.1	2.55	5.58	2.37	
		LTN_V04	VOLUME	817291	830448	34.1	2.55	5.58	2.37	
		LTN_V05	VOLUME	817288	830460	34.1	2.55	5.58	2.37	Emission of first 50m * 0.5 * (1 / 4.5) + Emission of second 50m * 0.5 * (1 / 4.5)
		LTN_V06	VOLUME	817285	830471	34.1	2.55	5.58	2.37	Emission of second 50m * (1 / 4.5)
		LTN_V07	VOLUME	817282	830483	34.1	2.55	5.58	2.37	
		LTN_V08	VOLUME	817279	830495	34.1	2.55	5.58	2.37	
		LTN_V09	VOLUME	817276	830506	34.1	2.55	5.58	2.37	
	Lam Tei Tunnel South Portal (LTT - South Portal)	LTS_V01	VOLUME	819449	826872	37.2	2.55	5.58	2.37	Emission of first 50m * (1 / 4.5)
		LTS_V02	VOLUME	819451	826861	37.2	2.55	5.58	2.37	
		LTS_V03	VOLUME	819452	826849	37.2	2.55	5.58	2.37	
		LTS_V04	VOLUME	819454	826837	37.2	2.55	5.58	2.37	
		LTS_V05	VOLUME	819456	826825	37.2	2.55	5.58	2.37	Emission of first 50m * 0.5 * (1 / 4.5) + Emission of second 50m * 0.5 * (1 / 4.5)
		LTS_V06	VOLUME	819458	826813	37.2	2.55	5.58	2.37	Emission of second 50m * (1 / 4.5)
		LTS_V07	VOLUME	819460	826801	37.2	2.55	5.58	2.37	
		LTS_V08	VOLUME	819462	826789	37.2	2.55	5.58	2.37	
		LTS_V09	VOLUME	819464	826778	37.2	2.55	5.58	2.37	
TMB	Tuen Mun Bypass Tunnel North Portal (TMB - North Portal) (Concurrent)	TMBN_V01	VOLUME	817230	830363	45.0	2.55	5.58	2.37	Emission of first 50m * (1 / 4.5)
		TMBN_V02	VOLUME	817231	830375	45.0	2.55	5.58	2.37	
		TMBN_V03	VOLUME	817231	830387	45.0	2.55	5.58	2.37	
		TMBN_V04	VOLUME	817232	830399	45.0	2.55	5.58	2.37	
		TMBN_V05	VOLUME	817233	830411	45.0	2.55	5.58	2.37	Emission of first 50m * 0.5 * (1 / 4.5) + Emission of second 50m * 0.5 * (1 / 4.5)
		TMBN_V06	VOLUME	817234	830423	45.0	2.55	5.58	2.37	Emission of second 50m * (1 / 4.5)
		TMBN_V07	VOLUME	817234	830435	45.0	2.55	5.58	2.37	
		TMBN_V08	VOLUME	817235	830447	45.0	2.55	5.58	2.37	
		TMBN_V09	VOLUME	817236	830459	45.0	2.55	5.58	2.37	



Emission Inventory for Tunnel Portal

Tunnel Section	Description	Source ID	Type	X	Y	Base Elevation	Release Height	Lateral Dim. (Sy)	Vertical Dim. (Sz)	Emission Split
				(m)	(m)	(m)	(m)	(m)	(m)	
TLC	Tai Lam Chung Tunnel (North Section) West Portal (TLCTN - West Portal)	HillN_V01	VOLUME	819771	825713	52.8	2.55	7.26	2.37	Emission of first 50m * (1 / 3.5)
		HillN_V02	VOLUME	819757	825719	52.8	2.55	7.26	2.37	
		HillN_V03	VOLUME	819743	825726	52.8	2.55	7.26	2.37	
		HillN_V04	VOLUME	819729	825732	52.8	2.55	7.26	2.37	Emission of first 50m * 0.5 * (1 / 3.5) + Emission of second 50m * 0.5 * (1 / 3.5)
		HillN_V05	VOLUME	819715	825739	52.8	2.55	7.26	2.37	Emission of second 50m * (1 / 3.5)
		HillN_V06	VOLUME	819701	825745	52.8	2.55	7.26	2.37	
		HillN_V07	VOLUME	819686	825752	52.8	2.55	7.26	2.37	
	HillS_V01	VOLUME	820142	825593	39.2	2.55	7.26	2.37		
	Tai Lam Chung Tunnel (North Section) East Portal (TLCTN - East Portal)	HillS_V02	VOLUME	820156	825588	39.2	2.55	7.26	2.37	Emission of first 50m * (1 / 3.5)
		HillS_V03	VOLUME	820171	825583	39.2	2.55	7.26	2.37	
		HillS_V04	VOLUME	820186	825578	39.2	2.55	7.26	2.37	
		HillS_V05	VOLUME	820201	825573	39.2	2.55	7.26	2.37	Emission of first 50m * 0.5 * (1 / 3.5) + Emission of second 50m * 0.5 * (1 / 3.5)
		HillS_V06	VOLUME	820216	825569	39.2	2.55	7.26	2.37	
		HillS_V07	VOLUME	820231	825564	39.2	2.55	7.26	2.37	
SKW		So Kwun Wat Link Road East Portal (SKWLR - East Portal)	SKWE_V01	VOLUME	819376	826885	46.6	2.55	3.86	
	SKWE_V02		VOLUME	819382	826878	46.6	2.55	3.86	2.37	
	SKWE_V03		VOLUME	819387	826872	46.6	2.55	3.86	2.37	
	SKWE_V04		VOLUME	819392	826865	46.6	2.55	3.86	2.37	
	SKWE_V05		VOLUME	819398	826859	46.6	2.55	3.86	2.37	
	SKWE_V06		VOLUME	819403	826853	46.6	2.55	3.86	2.37	
	SKWE_V07		VOLUME	819408	826846	46.6	2.55	3.86	2.37	Emission of second 50m * (1 / 6)
	SKWE_V08		VOLUME	819414	826840	46.6	2.55	3.86	2.37	
	SKWE_V09		VOLUME	819419	826834	46.6	2.55	3.86	2.37	
	SKWE_V10		VOLUME	819424	826827	46.6	2.55	3.86	2.37	
	SKWE_V11		VOLUME	819430	826821	46.6	2.55	3.86	2.37	
	SKWE_V12		VOLUME	819435	826815	46.6	2.55	3.86	2.37	
	So Kwun Wat Link Road West Portal (SKWLR - West Portal)	SKWW_V01	VOLUME	817685	826516	35.6	2.55	5.58	2.37	Emission of first 50m * (1 / 4.5)
		SKWW_V02	VOLUME	817676	826508	35.6	2.55	5.58	2.37	
SKWW_V03		VOLUME	817667	826500	35.6	2.55	5.58	2.37		
SKWW_V04		VOLUME	817658	826492	35.6	2.55	5.58	2.37		
SKWW_V05		VOLUME	817649	826484	35.6	2.55	5.58	2.37	Emission of first 50m * 0.5 * (1 / 4.5) + Emission of second 50m * 0.5 * (1 / 4.5)	
SKWW_V06		VOLUME	817640	826477	35.6	2.55	5.58	2.37	Emission of second 50m * (1 / 4.5)	
SKWW_V07		VOLUME	817631	826469	35.6	2.55	5.58	2.37		
SKWW_V08		VOLUME	817622	826461	35.6	2.55	5.58	2.37		
SKWW_V09		VOLUME	817613	826453	35.6	2.55	5.58	2.37		

## Emission Inventory for Tunnel Portal

Tunnel Section	Description	Source ID	Type	X	Y	Base Elevation	Release Height	Lateral Dim. (Sy)	Vertical Dim. (Sz)	Emission Split
				(m)	(m)	(m)	(m)	(m)	(m)	
TLC	Tai Lam Chung Tunnel (South Section) North Portal (TLCTS - North Portal)	TLCN_V01	VOLUME	820475	825471	32.0	2.55	7.26	2.37	Emission of first 50m * (1 / 3.5)
		TLCN_V02	VOLUME	820460	825474	32.0	2.55	7.26	2.37	
		TLCN_V03	VOLUME	820444	825476	32.0	2.55	7.26	2.37	
		TLCN_V04	VOLUME	820429	825478	32.0	2.55	7.26	2.37	Emission of first 50m * 0.5 * (1 / 3.5) + Emission of second 50m * 0.5 * (1 / 3.5)
		TLCN_V05	VOLUME	820414	825480	32.0	2.55	7.26	2.37	Emission of second 50m * (1 / 3.5)
		TLCN_V06	VOLUME	820398	825482	32.0	2.55	7.26	2.37	
		TLCN_V07	VOLUME	820383	825484	32.0	2.55	7.26	2.37	
	TLCSE_V01	VOLUME	821976	824741	72.3	2.55	3.86	2.37	Emission of first 50m * (1 / 6)	
	TLCSE_V02	VOLUME	821984	824744	72.3	2.55	3.86	2.37		
	TLCSE_V03	VOLUME	821991	824748	72.3	2.55	3.86	2.37		
	TLCSE_V04	VOLUME	821999	824752	72.3	2.55	3.86	2.37		
	TLCSE_V05	VOLUME	822006	824757	72.3	2.55	3.86	2.37		
	TLCSE_V06	VOLUME	822013	824761	72.3	2.55	3.86	2.37		Emission of second 50m * (1 / 6)
	TLCSE_V07	VOLUME	822020	824766	72.3	2.55	3.86	2.37		
	TLCSE_V08	VOLUME	822027	824771	72.3	2.55	3.86	2.37		
	TLCSE_V09	VOLUME	822034	824775	72.3	2.55	3.86	2.37		
	TLCSE_V10	VOLUME	822041	824780	72.3	2.55	3.86	2.37		
	TLCSE_V11	VOLUME	822048	824784	72.3	2.55	3.86	2.37	Emission of first 50m * (1 / 4.5)	
	TLCSE_V12	VOLUME	822055	824789	72.3	2.55	3.86	2.37		
	Tai Lam Chung Tunnel (South Section) South Portal (TLCTS - Southwest Portal)	TLCSW_V01	VOLUME	821894	824604	63.8	2.55	5.58	2.37	Emission of first 50m * (1 / 4.5)
		TLCSW_V02	VOLUME	821902	824595	63.8	2.55	5.58	2.37	
TLCSW_V03		VOLUME	821910	824586	63.8	2.55	5.58	2.37		
TLCSW_V04		VOLUME	821915	824575	63.8	2.55	5.58	2.37		
TLCSW_V05		VOLUME	821921	824564	63.8	2.55	5.58	2.37	Emission of first 50m * 0.5 * (1 / 4.5) + Emission of second 50m * 0.5 * (1 / 4.5)	
TLCSW_V06		VOLUME	821927	824553	63.8	2.55	5.58	2.37	Emission of second 50m * (1 / 4.5)	
TLCSW_V07		VOLUME	821932	824541	63.8	2.55	5.58	2.37		
TLCSW_V08		VOLUME	821937	824530	63.8	2.55	5.58	2.37		
TLCSW_V09		VOLUME	821943	824518	63.8	2.55	5.58	2.37		



Emission Inventory for Tunnel Portal

Tunnel Section	Description	Source ID	Type	X	Y	Base Elevation	Release Height	Lateral Dim. (Sy)	Vertical Dim. (Sz)	Emission Split
				(m)	(m)	(m)	(m)	(m)	(m)	
NL	North Lantau Tunnel 1 North Portal (under HKIW - NEL)	NLN_V01	VOLUME	823067	822264	80.2	2.55	3.44	2.37	Emission of first 50m * (1 / 7)
		NLN_V02	VOLUME	823063	822271	80.2	2.55	3.44	2.37	
		NLN_V03	VOLUME	823060	822277	80.2	2.55	3.44	2.37	
		NLN_V04	VOLUME	823056	822283	80.2	2.55	3.44	2.37	
		NLN_V05	VOLUME	823052	822290	80.2	2.55	3.44	2.37	
		NLN_V06	VOLUME	823049	822296	80.2	2.55	3.44	2.37	
		NLN_V07	VOLUME	823045	822303	80.2	2.55	3.44	2.37	
	North Lantau Tunnel 2 Northeast Portal (under Tsing Yi Lantau Link)	NLNE_V01	VOLUME	823329	822247	59.7	2.55	3.44	2.37	Emission of first 50m * (1 / 7)
		NLNE_V02	VOLUME	823336	822247	59.7	2.55	3.44	2.37	
		NLNE_V03	VOLUME	823344	822248	59.7	2.55	3.44	2.37	
		NLNE_V04	VOLUME	823351	822249	59.7	2.55	3.44	2.37	
		NLNE_V05	VOLUME	823359	822250	59.7	2.55	3.44	2.37	
		NLNE_V06	VOLUME	823366	822250	59.7	2.55	3.44	2.37	
		NLNE_V07	VOLUME	823373	822251	59.7	2.55	3.44	2.37	
North Lantau Tunnel 1 South Portal (under HKIW - NEL)	NLNE_V08	VOLUME	823381	822252	59.7	2.55	3.44	2.37	Emission of second 50m * (1 / 7)	
	NLNE_V09	VOLUME	823388	822251	59.7	2.55	3.44	2.37		
	NLNE_V10	VOLUME	823396	822251	59.7	2.55	3.44	2.37		
	NLNE_V11	VOLUME	823403	822251	59.7	2.55	3.44	2.37		
	NLNE_V12	VOLUME	823410	822251	59.7	2.55	3.44	2.37		
	NLNE_V13	VOLUME	823418	822251	59.7	2.55	3.44	2.37		
	NLNE_V14	VOLUME	823425	822252	59.7	2.55	3.44	2.37		
NL	North Lantau Tunnel 1 South Portal (under HKIW - NEL)	NLS_V01	VOLUME	823317	821961	74.5	2.55	3.44	2.37	Emission of first 50m * (1 / 7)
		NLS_V02	VOLUME	823322	821955	74.5	2.55	3.44	2.37	
		NLS_V03	VOLUME	823326	821949	74.5	2.55	3.44	2.37	
		NLS_V04	VOLUME	823331	821944	74.5	2.55	3.44	2.37	
		NLS_V05	VOLUME	823336	821938	74.5	2.55	3.44	2.37	
		NLS_V06	VOLUME	823341	821932	74.5	2.55	3.44	2.37	
		NLS_V07	VOLUME	823345	821927	74.5	2.55	3.44	2.37	
	North Lantau Tunnel 1 South Portal (under HKIW - NEL)	NLS_V08	VOLUME	823350	821921	74.5	2.55	3.44	2.37	Emission of second 50m * (1 / 7)
		NLS_V09	VOLUME	823355	821915	74.5	2.55	3.44	2.37	
		NLS_V10	VOLUME	823360	821910	74.5	2.55	3.44	2.37	
		NLS_V11	VOLUME	823365	821904	74.5	2.55	3.44	2.37	
		NLS_V12	VOLUME	823369	821898	74.5	2.55	3.44	2.37	
		NLS_V13	VOLUME	823374	821893	74.5	2.55	3.44	2.37	
		NLS_V14	VOLUME	823379	821887	74.5	2.55	3.44	2.37	

Note:  
The traffic direction is one-way for each single tunnel tube for portal emission calculation.

Hourly Emission of Lam Tei Tunnel Portal (1st Jan, Short Term, Year 2033)

Pollutant	Flow ID	Road Link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 01			Hr 02			Hr 03			Hr 04			Hr 05			Hr 06			Hr 07			Hr 08									
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)				
RSP	1010	LTT – North Portal	4223	4850	40%	853	0.0107	27.6	582	0.0113	19.7	398	0.0115	13.8	303	0.0117	10.6	348	0.0119	12.5	643	0.0126	24.3	1454	0.0129	56.7	2962	0.011	98.6							
						<i>Emission of first 50m (g/hr)</i>						6.4	4.6						3.2			2.5			2.9			5.7			13.2			22.9		
						<i>Emission of second 50m (g/hr)</i>						3.2	2.3						1.6			1.2			1.5			2.8			6.6			11.4		
FSP	1010	LTT – North Portal	4223	4850	40%	853	0.0099	25.4	582	0.0104	18.2	398	0.0106	12.7	303	0.0107	9.8	348	0.011	11.5	643	0.0116	22.4	1454	0.0119	52.2	2962	0.0102	90.8							
						<i>Emission of first 50m (g/hr)</i>						5.9	4.2						3.0			2.3			2.7			5.2			12.1			21.1		
						<i>Emission of second 50m (g/hr)</i>						3.0	2.1						1.5			1.1			1.3			2.6			6.1			10.5		
RSP	1009	LTT – South Portal	4226	4869	40%	831	0.0105	26.4	566	0.011	18.8	388	0.0115	13.4	297	0.0114	10.3	342	0.0119	12.3	626	0.0123	23.2	1428	0.0128	55.2	2912	0.0111	97.8							
						<i>Emission of first 50m (g/hr)</i>						6.1	4.3						3.1			2.4			2.8			5.4			12.8			22.6		
						<i>Emission of second 50m (g/hr)</i>						3.0	2.2						1.6			1.2			1.4			2.7			6.4			11.3		
FSP	1009	LTT – South Portal	4226	4869	40%	831	0.0097	24.3	566	0.0101	17.3	388	0.0105	12.4	297	0.0105	9.5	342	0.0109	11.3	626	0.0113	21.4	1428	0.0118	50.8	2912	0.0102	90.0							
						<i>Emission of first 50m (g/hr)</i>						5.6	4.0						2.9			2.2			2.6			4.9			11.8			20.8		
						<i>Emission of second 50m (g/hr)</i>						2.8	2.0						1.4			1.1			1.3			2.5			5.9			10.4		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 09			Hr 10			Hr 11			Hr 12			Hr 13			Hr 14			Hr 15			Hr 16									
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)				
RSP	1010	LTT – North Portal	4223	4850	40%	3008	0.012	106.4	2678	0.015	123.0	2506	0.016	119.7	2421	0.015	107.3	2030	0.015	91.7	2092	0.014	90.1	2253	0.015	101.0	2297	0.014	98.7							
						<i>Emission of first 50m (g/hr)</i>						24.7	28.5						27.8			21.3			20.9			23.4			22.9					
						<i>Emission of second 50m (g/hr)</i>						12.4	14.3						13.9			10.6			10.5			11.7			11.5					
FSP	1010	LTT – North Portal	4223	4850	40%	3008	0.011	97.9	2678	0.014	113.1	2506	0.015	110.1	2421	0.014	98.7	2030	0.014	84.4	2092	0.013	82.9	2253	0.014	92.9	2297	0.013	90.8							
						<i>Emission of first 50m (g/hr)</i>						22.7	26.3						25.6			19.6			19.2			21.6			21.1					
						<i>Emission of second 50m (g/hr)</i>						11.4	13.1						12.8			9.8			9.6			10.8			10.5					
RSP	1009	LTT – South Portal	4226	4869	40%	2958	0.012	105.3	2651	0.015	120.9	2490	0.016	118.9	2400	0.015	106.1	2065	0.016	102.1	2124	0.016	101.0	2317	0.016	113.6	2332	0.016	110.4							
						<i>Emission of first 50m (g/hr)</i>						24.4	28.0						27.5			24.6			23.4			26.3			25.6					
						<i>Emission of second 50m (g/hr)</i>						12.2	14.0						13.8			11.8			11.7			13.1			12.8					
FSP	1009	LTT – South Portal	4226	4869	40%	2958	0.011	97.0	2651	0.014	111.2	2490	0.015	109.3	2400	0.013	97.6	2065	0.015	93.9	2124	0.015	92.9	2317	0.015	104.5	2332	0.014	101.6							
						<i>Emission of first 50m (g/hr)</i>						22.4	25.7						25.3			22.6			21.5			24.2			23.5					
						<i>Emission of second 50m (g/hr)</i>						11.2	12.9						12.7			11.3			10.9			10.8			12.1			11.8		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 17			Hr 18			Hr 19			Hr 20			Hr 21			Hr 22			Hr 23			Hr 24									
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)				
RSP	1010	LTT – North Portal	4223	4850	40%	2429	0.014	103.6	2740	0.013	105.6	2820	0.010	87.1	2151	0.011	68.0	1785	0.011	56.5	1682	0.010	49.5	1657	0.009	45.6	1278	0.010	36.9							
						<i>Emission of first 50m (g/hr)</i>						24.1	24.5						20.2			15.8			13.1			11.5			10.6			8.6		
						<i>Emission of second 50m (g/hr)</i>						12.0	12.3						10.1			7.9			6.6			5.7			5.3			4.3		
FSP	1010	LTT – North Portal	4223	4850	40%	2429	0.013	95.3	2740	0.012	97.2	2820	0.009	80.3	2151	0.010	62.7	1785	0.010	52.1	1682	0.009	45.6	1657	0.008	42.0	1278	0.009	34.0							
						<i>Emission of first 50m (g/hr)</i>						22.1	22.6						18.6			14.6			12.1			10.6			9.7					
						<i>Emission of second 50m (g/hr)</i>						11.1	11.3						9.3			7.3			6.0			5.3			4.9					
RSP	1009	LTT – South Portal	4226	4869	40%	2451	0.015	114.1	2699	0.014	114.0	2658	0.011	90.5	2011	0.012	70.2	1660	0.012	58.2	1558	0.011	51.7	1527	0.010	47.7	1184	0.011	38.5							
						<i>Emission of first 50m (g/hr)</i>						26.4	26.4						20.9			16.3			13.5			12.0			11.0					
						<i>Emission of second 50m (g/hr)</i>						13.2	13.2						10.5			8.1			6.7			6.0			5.5					
FSP	1009	LTT – South Portal	4226	4869	40%	2451	0.014	105.0	2699	0.013	105.0	2658	0.010	83.3	2011	0.011	64.7	1660	0.011	53.6	1558	0.010	47.6	1527	0.010	43.9	1184	0.010	35.5							
						<i>Emission of first 50m (g/hr)</i>						24.3	24.3						19.3			15.0			12.4			11.0			10.2					
						<i>Emission of second 50m (g/hr)</i>						12.1	12.1						9.6			7.5			6.2			5.5			5.1					



Hourly Emission of Tuen Mun Bypass North Tunnel Portal (1st Jan. Short Term, Year 2033)

Pollutant	Flow ID	Road Link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 01			Hr 02			Hr 03			Hr 04			Hr 05			Hr 06			Hr 07			Hr 08					
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
RSP	5009	TMB - North Portal	7453	7532	40%	315	0.013	19.2	216	0.0134	13.6	148	0.0133	9.2	113	0.0133	7.0	132	0.0144	8.9	243	0.0147	16.7	555	0.0148	38.5	1142	0.0127	67.9			
						<i>Emission of first 50m (g/hr)</i>			5.1			3.6			2.4			1.9			2.4			4.4			10.2			17.9		
						<i>Emission of second 50m (g/hr)</i>			2.5			1.8			1.2			0.9			1.2			2.2			5.1			9.0		
FSP	5009	TMB - North Portal	7453	7532	40%	315	0.012	17.6	216	0.0123	12.5	148	0.0122	8.5	113	0.0122	6.5	132	0.0133	8.2	243	0.0135	15.3	555	0.0137	35.5	1142	0.0117	62.5			
						<i>Emission of first 50m (g/hr)</i>			4.7			3.3			2.2			1.7			2.2			4.0			9.4			16.5		
						<i>Emission of second 50m (g/hr)</i>			2.3			1.6			1.1			0.9			1.1			2.0			4.7			8.2		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 09			Hr 10			Hr 11			Hr 12			Hr 13			Hr 14			Hr 15			Hr 16					
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
RSP	5009	TMB - North Portal	7453	7532	40%	1163	0.014	73.7	1094	0.017	88.4	1042	0.018	87.0	994	0.017	78.0	1214	0.019	110.0	1245	0.019	110.5	1401	0.019	125.3	1371	0.019	120.6			
						<i>Emission of first 50m (g/hr)</i>			19.5			23.3			23.0			20.6			29.0			29.2			33.1			31.8		
						<i>Emission of second 50m (g/hr)</i>			9.7			11.7			11.5			10.3			14.5			14.6			16.5			15.9		
FSP	5009	TMB - North Portal	7453	7532	40%	1163	0.013	67.9	1094	0.016	81.3	1042	0.016	80.0	994	0.015	71.8	1214	0.018	101.1	1245	0.017	101.6	1401	0.018	115.2	1371	0.017	110.9			
						<i>Emission of first 50m (g/hr)</i>			17.9			21.5			21.1			18.9			26.7			26.8			30.4			29.3		
						<i>Emission of second 50m (g/hr)</i>			9.0			10.7			10.6			9.5			13.3			13.4			15.2			14.6		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 17			Hr 18			Hr 19			Hr 20			Hr 21			Hr 22			Hr 23			Hr 24					
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
RSP	5009	TMB - North Portal	7453	7532	40%	1417	0.018	120.4	1470	0.017	115.9	1279	0.014	84.7	951	0.015	65.5	766	0.015	53.5	713	0.015	48.5	685	0.014	45.0	541	0.015	36.7			
						<i>Emission of first 50m (g/hr)</i>			31.8			30.6			22.3			17.3			14.1			12.8			11.9			9.7		
						<i>Emission of second 50m (g/hr)</i>			15.9			15.3			11.2			8.6			7.1			6.4			5.9			4.8		
FSP	5009	TMB - North Portal	7453	7532	40%	1417	0.017	110.8	1470	0.016	106.6	1279	0.013	77.9	951	0.014	60.2	766	0.014	49.3	713	0.013	44.6	685	0.013	41.4	541	0.013	33.8			
						<i>Emission of first 50m (g/hr)</i>			29.2			28.1			20.6			15.9			13.0			11.8			10.9			8.9		
						<i>Emission of second 50m (g/hr)</i>			14.6			14.1			10.3			7.9			6.5			5.9			5.5			4.5		

Hourly Emission of So Kwun Wat Link Road Portal (1st Jan, Short Term, Year 2033)

Pollutant	Flow ID	Road Link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 01			Hr 02			Hr 03			Hr 04			Hr 05			Hr 06			Hr 07			Hr 08		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
RSP	1011	SKWLR – East Portal	2020	2622	40%	514	0.0062	5.2	347	0.0069	3.9	235	0.0068	2.6	177	0.0076	2.2	201	0.0075	2.5	368	0.0082	4.9	825	0.0084	11.3	1679	0.0078	21.4
						<i>Emission of first 50m (g/hr)</i>						1.1	0.8	0.5	0.5	1.0	2.3	4.4											
						<i>Emission of second 50m (g/hr)</i>						0.5	0.4	0.3	0.2	0.3	0.5	1.2	2.2										
FSP	1011	SKWLR – East Portal	2020	2622	40%	514	0.0057	4.8	347	0.0063	3.6	235	0.0062	2.4	177	0.007	2.0	201	0.0069	2.3	368	0.0076	4.6	825	0.0077	10.4	1679	0.0072	19.7
						<i>Emission of first 50m (g/hr)</i>						1.0	0.7	0.5	0.4	0.9	2.1	4.1											
						<i>Emission of second 50m (g/hr)</i>						0.5	0.4	0.2	0.2	0.5	1.1	2.0											
RSP	1012	SKWLR – West Portal	1973	2514	40%	41	0.0233	1.5	28	0.0257	1.1	17	0.0206	0.5	13	0.0264	0.5	14	0.0247	0.5	29	0.0266	1.2	65	0.0257	2.6	128	0.0146	2.9
						<i>Emission of first 50m (g/hr)</i>						0.3	0.2	0.1	0.1	0.3	0.5	0.6											
						<i>Emission of second 50m (g/hr)</i>						0.2	0.1	0.1	0.1	0.1	0.3	0.3											
FSP	1012	SKWLR – West Portal	1973	2514	40%	41	0.0214	1.4	28	0.0237	1.0	17	0.019	0.5	13	0.0243	0.5	14	0.0227	0.5	29	0.0245	1.1	65	0.0237	2.4	128	0.0134	2.7
						<i>Emission of first 50m (g/hr)</i>						0.3	0.2	0.1	0.1	0.2	0.5	0.6											
						<i>Emission of second 50m (g/hr)</i>						0.1	0.1	0.1	0.1	0.1	0.3	0.3											
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 09			Hr 10			Hr 11			Hr 12			Hr 13			Hr 14			Hr 15			Hr 16		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
RSP	1011	SKWLR – East Portal	2020	2622	40%	1680	0.008	21.6	1338	0.010	21.3	1209	0.010	20.4	1204	0.009	18.0	209	0.026	8.9	212	0.026	8.9	244	0.025	10.0	232	0.025	9.5
						<i>Emission of first 50m (g/hr)</i>						4.4	4.4	4.2	3.7	1.8	2.0	2.0											
						<i>Emission of second 50m (g/hr)</i>						2.2	2.2	2.1	1.9	0.9	1.0	1.0											
FSP	1011	SKWLR – East Portal	2020	2622	40%	1680	0.007	19.9	1338	0.009	19.6	1209	0.010	18.8	1204	0.009	16.6	209	0.024	8.2	212	0.024	8.2	244	0.023	9.2	232	0.023	8.8
						<i>Emission of first 50m (g/hr)</i>						4.1	4.0	3.9	3.4	1.7	1.9	1.8											
						<i>Emission of second 50m (g/hr)</i>						2.0	2.0	1.9	1.7	0.8	0.9	0.9											
RSP	1012	SKWLR – West Portal	1973	2514	40%	128	0.018	3.5	104	0.029	4.8	91	0.029	4.2	93	0.027	3.9	184	0.023	6.5	186	0.022	6.4	211	0.022	7.2	204	0.022	6.9
						<i>Emission of first 50m (g/hr)</i>						0.7	1.0	0.9	0.8	1.4	1.5	1.4											
						<i>Emission of second 50m (g/hr)</i>						0.4	0.5	0.4	0.4	0.7	0.8	0.7											
FSP	1012	SKWLR – West Portal	1973	2514	40%	128	0.016	3.2	104	0.027	4.4	91	0.027	3.8	93	0.025	3.6	184	0.021	6.0	186	0.020	5.9	211	0.020	6.6	204	0.020	6.3
						<i>Emission of first 50m (g/hr)</i>						0.7	0.9	0.8	0.8	1.3	1.4	1.3											
						<i>Emission of second 50m (g/hr)</i>						0.3	0.5	0.4	0.4	0.6	0.6	0.7											
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 17			Hr 18			Hr 19			Hr 20			Hr 21			Hr 22			Hr 23			Hr 24		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
RSP	1011	SKWLR – East Portal	2020	2622	40%	238	0.025	9.5	232	0.025	9.6	172	0.025	7.1	124	0.027	5.5	97	0.030	4.7	91	0.031	4.6	82	0.031	4.1	66	0.030	3.2
						<i>Emission of first 50m (g/hr)</i>						2.0	2.0	1.5	1.1	1.0	0.8	0.7											
						<i>Emission of second 50m (g/hr)</i>						1.0	1.0	0.7	0.6	0.5	0.4	0.3											
FSP	1011	SKWLR – East Portal	2020	2622	40%	238	0.023	8.8	232	0.023	8.8	172	0.023	6.5	124	0.025	5.0	97	0.028	4.4	91	0.028	4.2	82	0.028	3.7	66	0.028	3.0
						<i>Emission of first 50m (g/hr)</i>						1.8	1.8	1.3	1.0	0.9	0.8	0.6											
						<i>Emission of second 50m (g/hr)</i>						0.9	0.9	0.7	0.5	0.4	0.4	0.3											
RSP	1012	SKWLR – West Portal	1973	2514	40%	214	0.021	7.1	229	0.021	7.5	207	0.018	5.9	156	0.019	4.7	127	0.021	4.1	121	0.021	3.9	115	0.020	3.5	91	0.020	2.8
						<i>Emission of first 50m (g/hr)</i>						1.5	1.6	1.2	1.0	0.9	0.8	0.7											
						<i>Emission of second 50m (g/hr)</i>						0.7	0.8	0.6	0.5	0.4	0.4	0.3											
FSP	1012	SKWLR – West Portal	1973	2514	40%	214	0.020	6.6	229	0.019	6.9	207	0.017	5.5	156	0.018	4.3	127	0.019	3.8	121	0.019	3.6	115	0.018	3.3	91	0.018	2.6
						<i>Emission of first 50m (g/hr)</i>						1.4	1.4	1.1	0.9	0.8	0.7	0.5											
						<i>Emission of second 50m (g/hr)</i>						0.7	0.7	0.6	0.5	0.4	0.4	0.3											



Hourly Emission of Tai Lam Chung Tunnel (North Section) Portal (1st Jan, Short Term, Year 2033)

Pollutant	Flow ID	Road Link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 01			Hr 02			Hr 03			Hr 04			Hr 05			Hr 06			Hr 07			Hr 08						
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	
RSP	1017	TLCTN – East Portal	341	2448	100%	1347	0.0088	18.1	915	0.0093	12.9	621	0.0095	9.0	473	0.01	7.2	545	0.0103	8.6	997	0.0108	16.3	2251	0.0111	38.0	4588	0.0099	68.9				
						<i>Emission of first 50m (g/hr)</i>						1.7	1.2			0.8			0.7			0.8			1.5			3.5			6.4		
						<i>Emission of second 50m (g/hr)</i>						0.8	0.6			0.4			0.3			0.4			0.8			1.8			3.2		
FSP	1017	TLCTN – East Portal	341	2448	100%	1347	0.0082	16.7	915	0.0085	11.9	621	0.0088	8.3	473	0.0092	6.6	545	0.0095	7.9	997	0.0099	15.0	2251	0.0102	35.0	4588	0.0091	63.4				
						<i>Emission of first 50m (g/hr)</i>						1.6	1.1			0.8			0.6			0.7			1.4			3.2					
						<i>Emission of second 50m (g/hr)</i>						0.8	0.6			0.4			0.3			0.4			0.7			1.6			2.9		
RSP	1016	TLCTN – West Portal	367	3126	100%	890	0.0108	18.7	605	0.0112	13.2	416	0.0116	9.4	316	0.0119	7.3	362	0.0121	8.5	669	0.0127	16.5	1517	0.013	38.3	3083	0.011	65.9				
						<i>Emission of first 50m (g/hr)</i>						1.5	1.0			0.7			0.6			0.7			1.3			3.0					
						<i>Emission of second 50m (g/hr)</i>						0.7	0.5			0.4			0.3			0.4			0.6			1.5			2.6		
FSP	1016	TLCTN – West Portal	367	3126	100%	890	0.01	17.2	605	0.0103	12.1	416	0.0107	8.6	316	0.011	6.7	362	0.0112	7.9	669	0.0117	15.2	1517	0.012	35.2	3083	0.0101	60.6				
						<i>Emission of first 50m (g/hr)</i>						1.3	0.9			0.7			0.5			0.6			1.2			2.8					
						<i>Emission of second 50m (g/hr)</i>						0.7	0.5			0.3			0.3			0.3			0.6			1.4			2.4		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 09			Hr 10			Hr 11			Hr 12			Hr 13			Hr 14			Hr 15			Hr 16						
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	
RSP	1017	TLCTN – East Portal	341	2448	100%	4637	0.010	72.9	3989	0.013	80.6	3699	0.014	78.6	3603	0.013	69.9	2266	0.017	58.3	2330	0.016	57.8	2554	0.017	65.0	2560	0.016	63.3				
						<i>Emission of first 50m (g/hr)</i>						6.8	7.5			7.3			6.5			5.4			5.4			6.0			5.9		
						<i>Emission of second 50m (g/hr)</i>						3.4	3.7			3.6			3.2			2.7			2.7			3.0			2.9		
FSP	1017	TLCTN – East Portal	341	2448	100%	4637	0.010	67.2	3989	0.012	74.2	3699	0.013	72.4	3603	0.012	64.3	2266	0.016	53.6	2330	0.015	53.2	2554	0.015	59.8	2560	0.015	58.2				
						<i>Emission of first 50m (g/hr)</i>						6.2	6.9			6.7			6.0			5.0			4.9			5.6			5.4		
						<i>Emission of second 50m (g/hr)</i>						3.1	3.4			3.4			3.0			2.5			2.5			2.8			2.7		
RSP	1016	TLCTN – West Portal	367	3126	100%	3126	0.012	71.2	2771	0.015	82.5	2593	0.016	80.4	2507	0.015	71.7	2209	0.015	65.5	2274	0.015	64.4	2455	0.015	72.3	2498	0.015	70.7				
						<i>Emission of first 50m (g/hr)</i>						5.6	6.5			6.3			5.6			5.1			5.0			5.7			5.5		
						<i>Emission of second 50m (g/hr)</i>						2.8	3.2			3.1			2.8			2.6			2.5			2.8			2.8		
FSP	1016	TLCTN – West Portal	367	3126	100%	3126	0.011	65.6	2771	0.014	75.9	2593	0.015	74.0	2507	0.014	66.0	2209	0.014	60.3	2274	0.013	59.3	2455	0.014	66.5	2498	0.013	65.0				
						<i>Emission of first 50m (g/hr)</i>						5.1	5.9			5.8			5.2			4.7			4.6			5.2			5.1		
						<i>Emission of second 50m (g/hr)</i>						2.6	3.0			2.9			2.6			2.4			2.3			2.6			2.5		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 17			Hr 18			Hr 19			Hr 20			Hr 21			Hr 22			Hr 23			Hr 24						
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	
RSP	1017	TLCTN – East Portal	341	2448	100%	2685	0.016	64.9	2920	0.015	64.2	2821	0.012	50.1	2129	0.012	38.9	1751	0.012	32.2	1643	0.012	28.8	1603	0.011	26.5	1245	0.011	21.4				
						<i>Emission of first 50m (g/hr)</i>						6.0	6.0			4.6			3.6			3.0			2.7			2.5			2.0		
						<i>Emission of second 50m (g/hr)</i>						3.0	3.0			2.3			1.8			1.5			1.3			1.2			1.0		
FSP	1017	TLCTN – East Portal	341	2448	100%	2685	0.015	59.7	2920	0.013	59.1	2821	0.011	46.1	2129	0.011	35.8	1751	0.011	29.7	1643	0.011	26.5	1603	0.010	24.4	1245	0.010	19.7				
						<i>Emission of first 50m (g/hr)</i>						5.5	5.5			4.3			3.3			2.8			2.5			2.3			1.8		
						<i>Emission of second 50m (g/hr)</i>						2.8	2.7			2.1			1.7			1.4			1.2			1.1			0.9		
RSP	1016	TLCTN – West Portal	367	3126	100%	2638	0.014	73.8	2959	0.013	74.9	3019	0.010	61.1	2300	0.011	47.7	1907	0.011	39.7	1794	0.010	34.8	1767	0.009	32.2	1364	0.010	25.8				
						<i>Emission of first 50m (g/hr)</i>						5.8	5.9			4.8			3.7			3.1			2.7			2.5			2.0		
						<i>Emission of second 50m (g/hr)</i>						2.9	2.9			2.4			1.9			1.6			1.4			1.3			1.0		
FSP	1016	TLCTN – West Portal	367	3126	100%	2638	0.013	67.9	2959	0.012	69.0	3019	0.010	56.3	2300	0.010	44.0	1907	0.010	36.6	1794	0.009	32.1	1767	0.009	29.6	1364	0.009	23.8				
						<i>Emission of first 50m (g/hr)</i>						5.3	5.4			4.4			3.4			2.9			2.5			2.3			1.9		
						<i>Emission of second 50m (g/hr)</i>						2.7	2.7			2.2			1.7			1.4			1.3			1.2			0.9		

Hourly Emission of Tai Lam Chung Tunnel (South Section) - North Portal (1st Jan. Short Term, Year 2033)

Pollutant	Flow ID	Road Link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 01			Hr 02			Hr 03			Hr 04			Hr 05			Hr 06			Hr 07			Hr 08			
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)
RSP	1016	TLCTS – North Portal	1699	3126	40%	890	0.0108	18.7	605	0.0112	13.2	416	0.0116	9.4	316	0.0119	7.3	362	0.0121	8.5	669	0.0127	16.5	1517	0.013	38.3	3083	0.011	65.9	
	<i>Emission of first 50m (g/hr)</i>						2.7			1.9			1.4			1.1			1.2			2.4			5.6			9.6		
	<i>Emission of second 50m (g/hr)</i>						1.4			1.0			0.7			0.5			0.6			1.2			2.8			4.8		
FSP	1016	TLCTS – North Portal	1699	3126	40%	890	0.01	17.2	605	0.0103	12.1	416	0.0107	8.6	316	0.011	6.7	362	0.0112	7.9	669	0.0117	15.2	1517	0.012	35.2	3083	0.0101	60.6	
	<i>Emission of first 50m (g/hr)</i>						2.5			1.8			1.3			1.0			1.1			2.2			5.1			8.8		
	<i>Emission of second 50m (g/hr)</i>						1.2			0.9			0.6			0.5			0.6			1.1			2.6			4.4		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 09			Hr 10			Hr 11			Hr 12			Hr 13			Hr 14			Hr 15			Hr 16			
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)
RSP	1016	TLCTS – North Portal	1699	3126	40%	3126	0.012	71.2	2771	0.015	82.5	2593	0.016	80.4	2507	0.015	71.7	2209	0.015	65.5	2274	0.015	64.4	2455	0.015	72.3	2498	0.015	70.7	
	<i>Emission of first 50m (g/hr)</i>						10.3			12.0			11.7			10.4			9.5			9.3			10.5			10.2		
	<i>Emission of second 50m (g/hr)</i>						5.2			6.0			5.8			5.2			4.8			4.7			5.2			5.1		
FSP	1016	TLCTS – North Portal	1699	3126	40%	3126	0.011	65.6	2771	0.014	75.9	2593	0.015	74.0	2507	0.014	66.0	2209	0.014	60.3	2274	0.013	59.3	2455	0.014	66.5	2498	0.013	65.0	
	<i>Emission of first 50m (g/hr)</i>						9.5			11.0			10.7			9.6			8.7			8.6			9.6			9.4		
	<i>Emission of second 50m (g/hr)</i>						4.8			5.5			5.4			4.8			4.4			4.3			4.8			4.7		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 17			Hr 18			Hr 19			Hr 20			Hr 21			Hr 22			Hr 23			Hr 24			
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)
RSP	1016	TLCTS – North Portal	1699	3126	40%	2638	0.014	73.8	2959	0.013	74.9	3019	0.010	61.1	2300	0.011	47.7	1907	0.011	39.7	1794	0.010	34.8	1767	0.009	32.2	1364	0.010	25.8	
	<i>Emission of first 50m (g/hr)</i>						10.7			10.9			8.9			6.9			5.8			5.0			4.7			3.7		
	<i>Emission of second 50m (g/hr)</i>						5.4			5.4			4.4			3.5			2.9			2.5			2.3			1.9		
FSP	1016	TLCTS – North Portal	1699	3126	40%	2638	0.013	67.9	2959	0.012	69.0	3019	0.010	56.3	2300	0.010	44.0	1907	0.010	36.6	1794	0.009	32.1	1767	0.009	29.6	1364	0.009	23.8	
	<i>Emission of first 50m (g/hr)</i>						9.8			10.0			8.2			6.4			5.3			4.7			4.3			3.5		
	<i>Emission of second 50m (g/hr)</i>						4.9			5.0			4.1			3.2			2.7			2.3			2.1			1.7		



Hourly Emission of Tai Lam Chung Tunnel (South Section) - South Portal (1st Jan, Short Term, Year 2033)

Pollutant	Flow ID	Road Link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 01			Hr 02			Hr 03			Hr 04			Hr 05			Hr 06			Hr 07			Hr 08		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
RSP	1017	TLCTS – Southeast Portal	1200	2448	16%	1347	0.009	18.1	915	0.009	12.9	621	0.010	9.0	473	0.010	7.2	545	0.010	8.6	997	0.011	16.3	2251	0.011	38.0	4588	0.010	68.9
	1019	TLCTS – Southeast Portal	620	792	40%	419	0.009	1.9	286	0.010	1.4	198	0.010	1.0	152	0.011	0.8	174	0.011	0.9	323	0.012	1.9	737	0.013	4.8	1530	0.015	11.3
	<i>Emission of first 50m (g/hr)</i>						1.4			1.0			0.7			0.5			0.7			1.3			3.0			6.0	
<i>Emission of second 50m (g/hr)</i>						0.7			0.5			0.3			0.3			0.3			0.6			1.5			3.0		
FSP	1017	TLCTS – Southeast Portal	1200	2448	16%	1347	0.008	16.7	915	0.009	11.9	621	0.009	8.3	473	0.009	6.6	545	0.010	7.9	997	0.010	15.0	2251	0.010	35.0	4588	0.009	63.4
	1019	TLCTS – Southeast Portal	620	792	40%	419	0.009	1.8	286	0.009	1.2	198	0.009	0.9	152	0.010	0.7	174	0.010	0.9	323	0.011	1.7	737	0.012	4.4	1530	0.014	10.4
	<i>Emission of first 50m (g/hr)</i>						1.3			0.9			0.6			0.5			0.6			1.2			2.8			5.6	
<i>Emission of second 50m (g/hr)</i>						0.6			0.4			0.3			0.3			0.3			0.6			1.4			2.8		
RSP	1017	TLCTS – Southwest Portal	1200	2448	24%	1347	0.009	18.1	915	0.009	12.9	621	0.010	9.0	473	0.010	7.2	545	0.010	8.6	997	0.011	16.3	2251	0.011	38.0	4588	0.010	68.9
	1020	TLCTS – Southwest Portal	629	629	40%	926	0.009	3.4	626	0.010	2.4	427	0.010	1.7	321	0.010	1.3	369	0.011	1.6	670	0.011	2.9	1512	0.012	6.8	3057	0.009	11.3
	<i>Emission of first 50m (g/hr)</i>						2.3			1.6			1.1			0.9			1.1			2.0			4.7			8.3	
<i>Emission of second 50m (g/hr)</i>						1.2			0.8			0.6			0.5			0.5			1.0			2.4			4.2		
FSP	1017	TLCTS – Southwest Portal	1200	2448	24%	1347	0.008	16.7	915	0.009	11.9	621	0.009	8.3	473	0.009	6.6	545	0.010	7.9	997	0.010	15.0	2251	0.010	35.0	4588	0.009	63.4
	1020	TLCTS – Southwest Portal	629	629	40%	926	0.009	3.1	626	0.009	2.2	427	0.009	1.6	321	0.010	1.2	369	0.010	1.4	670	0.010	2.7	1512	0.011	6.2	3057	0.009	10.4
	<i>Emission of first 50m (g/hr)</i>						2.1			1.5			1.1			0.8			1.0			1.9			4.4			7.7	
<i>Emission of second 50m (g/hr)</i>						1.1			0.8			0.5			0.4			0.5			0.9			2.2			3.8		

Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 09			Hr 10			Hr 11			Hr 12			Hr 13			Hr 14			Hr 15			Hr 16		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
RSP	1017	TLCTS – Southeast Portal	1200	2448	16%	4637	0.010	72.9	3989	0.013	80.6	3699	0.014	78.6	3603	0.013	69.9	2266	0.017	58.3	2330	0.016	57.8	2554	0.017	65.0	2560	0.016	63.3
	1019	TLCTS – Southeast Portal	620	792	40%	1555	0.015	11.8	1428	0.018	12.8	1360	0.019	12.7	1300	0.018	11.3	1251	0.015	8.9	1294	0.014	8.6	1367	0.015	9.8	1425	0.014	9.9
	<i>Emission of first 50m (g/hr)</i>						6.4			7.0			6.9			6.1			5.0			4.9			5.5			5.5	
<i>Emission of second 50m (g/hr)</i>						3.2			3.5			3.4			3.0			2.5			2.4			2.8			2.7		
FSP	1017	TLCTS – Southeast Portal	1200	2448	16%	4637	0.010	67.2	3989	0.012	74.2	3699	0.013	72.4	3603	0.012	64.3	2266	0.016	53.6	2330	0.015	53.2	2554	0.015	59.8	2560	0.015	58.2
	1019	TLCTS – Southeast Portal	620	792	40%	1555	0.014	10.9	1428	0.017	11.8	1360	0.018	11.7	1300	0.016	10.4	1251	0.013	8.2	1294	0.013	7.9	1367	0.013	9.0	1425	0.013	9.1
	<i>Emission of first 50m (g/hr)</i>						5.9			6.4			6.3			5.6			4.6			4.5			5.1			5.0	
<i>Emission of second 50m (g/hr)</i>						2.9			3.2			2.8			2.3			2.3			2.3			2.5			2.5		
RSP	1017	TLCTS – Southwest Portal	1200	2448	24%	4637	0.010	72.9	3989	0.013	80.6	3699	0.014	78.6	3603	0.013	69.9	2266	0.017	58.3	2330	0.016	57.8	2554	0.017	65.0	2560	0.016	63.3
	1020	TLCTS – Southwest Portal	629	629	40%	3081	0.010	12.1	2560	0.014	13.5	2339	0.014	12.8	2305	0.013	11.5	1015	0.025	9.8	1038	0.024	9.9	1188	0.024	11.1	1137	0.024	10.7
	<i>Emission of first 50m (g/hr)</i>						8.9			9.8			9.5			8.5			7.1			7.1			8.0			7.7	
<i>Emission of second 50m (g/hr)</i>						4.4			4.9			4.7			4.2			3.6			3.6			4.0			3.9		
FSP	1017	TLCTS – Southwest Portal	1200	2448	24%	4637	0.010	67.2	3989	0.012	74.2	3699	0.013	72.4	3603	0.012	64.3	2266	0.016	53.6	2330	0.015	53.2	2554	0.015	59.8	2560	0.015	58.2
	1020	TLCTS – Southwest Portal	629	629	40%	3081	0.009	11.2	2560	0.012	12.4	2339	0.013	11.8	2305	0.012	10.6	1015	0.023	9.0	1038	0.023	9.1	1188	0.022	10.2	1137	0.022	9.8
	<i>Emission of first 50m (g/hr)</i>						8.2			9.0			8.7			7.8			6.5			6.5			7.3			7.1	
<i>Emission of second 50m (g/hr)</i>						4.1			4.5			4.4			3.9			3.3			3.3			3.7			3.6		

Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 17			Hr 18			Hr 19			Hr 20			Hr 21			Hr 22			Hr 23			Hr 24		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
RSP	1017	TLCTS – Southeast Portal	1200	2448	16%	2685	0.016	64.9	2920	0.015	64.2	2821	0.012	50.1	2129	0.012	38.9	1751	0.012	32.2	1643	0.012	28.8	1603	0.011	26.5	1245	0.011	21.4
	1019	TLCTS – Southeast Portal	620	792	40%	1515	0.014	10.5	1758	0.013	10.9	1918	0.010	9.7	1470	0.010	7.0	1229	0.009	5.3	1157	0.008	4.3	1149	0.007	3.9	881	0.007	3.1
	<i>Emission of first 50m (g/hr)</i>						5.7			5.7			4.7			3.5			2.8			2.4			2.2			1.8	
<i>Emission of second 50m (g/hr)</i>						2.8			2.9			2.4			1.8			1.4			1.2			1.1			0.9		
FSP	1017	TLCTS – Southeast Portal	1200	2448	16%	2685	0.015	59.7	2920	0.013	59.1	2821	0.011	46.1	2129	0.011	35.8	1751	0.011	29.7	1643	0.011	26.5	1603	0.010	24.4	1245	0.010	19.7
	1019	TLCTS – Southeast Portal	620	792	40%	1515	0.013	9.7	1758	0.012	10.0	1918	0.010	9.0	1470	0.009	6.4	1229	0.008	4.9	1157	0.007	3.9	1149	0.006	3.6	881	0.007	2.8
	<i>Emission of first 50m (g/hr)</i>						5.2			5.3			4.3			3.3			2.6			2.2			2.1			1.6	
<i>Emission of second 50m (g/hr)</i>						2.6			2.6			2.2			1.6			1.3			1.1			1.0			0.8		
RSP	1017	TLCTS – Southwest Portal	1200	2448	24%	2685	0.016	64.9	2920	0.015	64.2	2821	0.012	50.1	2129	0.012	38.9	1751	0.012	32.2	1643	0.012	28.8	1603	0.011	26.5	1245	0.011	21.4
	1020	TLCTS – Southwest Portal	629	629	40%	1167	0.024	10.7	1161	0.023	10.6	903	0.022	7.8	660	0.024	6.2	521	0.026	5.3	484	0.026	5.0	453	0.026	4.7	364	0.026	3.7
	<i>Emission of first 50m (g/hr)</i>						7.9			7.8			5.9			4.7			3.9			3.6			3.3			2.6	
<i>Emission of second 50m (g/hr)</i>						3.9			3.9			3.0			2.3			1.9			1.8			1.6			1.3		
FSP	1017	TLCTS – Southwest Portal	1200	2448	24%	2685	0.015	59.7	2920																				

Hourly Emission of North Lantau Tunnel 1 Portal (1st Jan, Short Term, Year 2033)

Pollutant	Flow ID	Road Link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 01			Hr 02			Hr 03			Hr 04			Hr 05			Hr 06			Hr 07			Hr 08																																			
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)																														
RSP	7609	North Lantau Tunnel 1 - North Portal	419	832	100%	220	0.0138	0.5	148	0.0137	0.4	101	0.0141	0.2	76	0.0153	0.2	85	0.014	0.2	156	0.0148	0.4	352	0.016	1.0	695	0.0119	1.4	<i>Emission of first 50m (g/hr)</i>			0.2			0.1			0.1			0.1			0.1			0.1			0.3			0.5								
						<i>Emission of second 50m (g/hr)</i>																														0.1			0.1			0.0			0.0			0.0			0.1			0.2			0.2			0.2		
						220	0.0126	0.5	148	0.0127	0.3	101	0.013	0.2	76	0.014	0.2	85	0.0128	0.2	156	0.0137	0.4	352	0.0148	0.9	695	0.0109	1.3	<i>Emission of first 50m (g/hr)</i>			0.2			0.1			0.1			0.1			0.1			0.3			0.4											
FSP	7609	North Lantau Tunnel 1 - North Portal	419	832	100%	220	0.0126	0.5	148	0.0127	0.3	101	0.013	0.2	76	0.014	0.2	85	0.0128	0.2	156	0.0137	0.4	352	0.0148	0.9	695	0.0109	1.3	<i>Emission of first 50m (g/hr)</i>			0.2			0.1			0.1			0.1			0.1			0.3			0.4											
						<i>Emission of second 50m (g/hr)</i>																														0.1			0.1			0.0			0.0			0.1			0.2			0.2			0.2			0.2		
						220	0.0126	0.5	148	0.0127	0.3	101	0.013	0.2	76	0.014	0.2	85	0.0128	0.2	156	0.0137	0.4	352	0.0148	0.9	695	0.0109	1.3	<i>Emission of first 50m (g/hr)</i>			0.2			0.1			0.1			0.1			0.1			0.3			0.4											
RSP	1039	North Lantau Tunnel 1 - South Portal	347	681	100%	650	0.0064	1.8	435	0.0066	1.2	294	0.0069	0.9	220	0.0074	0.7	251	0.0074	0.8	453	0.0077	1.5	1012	0.0083	3.5	2034	0.0069	5.9	<i>Emission of first 50m (g/hr)</i>			0.6			0.4			0.3			0.2			0.5			1.2			2.0											
						<i>Emission of second 50m (g/hr)</i>																														0.3			0.2			0.1			0.1			0.3			0.5			1.2			2.0					
						650	0.0059	1.6	435	0.0061	1.1	294	0.0064	0.8	220	0.0068	0.6	251	0.0068	0.7	453	0.0071	1.4	1012	0.0076	3.3	2034	0.0064	5.5	<i>Emission of first 50m (g/hr)</i>			0.6			0.4			0.3			0.2			0.5			1.2			2.0											
FSP	1039	North Lantau Tunnel 1 - South Portal	347	681	100%	650	0.0059	1.6	435	0.0061	1.1	294	0.0064	0.8	220	0.0068	0.6	251	0.0068	0.7	453	0.0071	1.4	1012	0.0076	3.3	2034	0.0064	5.5	<i>Emission of first 50m (g/hr)</i>			0.6			0.4			0.3			0.2			0.5			1.2			2.0											
						<i>Emission of second 50m (g/hr)</i>																														0.3			0.2			0.1			0.1			0.3			0.5			1.2			2.0					
						650	0.0059	1.6	435	0.0061	1.1	294	0.0064	0.8	220	0.0068	0.6	251	0.0068	0.7	453	0.0071	1.4	1012	0.0076	3.3	2034	0.0064	5.5	<i>Emission of first 50m (g/hr)</i>			0.6			0.4			0.3			0.2			0.5			1.2			2.0											
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 09			Hr 10			Hr 11			Hr 12			Hr 13			Hr 14			Hr 15			Hr 16																																			
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)																														
RSP	7609	North Lantau Tunnel 1 - North Portal	419	832	100%	698	0.013	1.6	557	0.018	1.8	499	0.019	1.6	498	0.017	1.5	1093	0.020	3.8	1126	0.020	3.9	1223	0.020	4.3	1238	0.020	4.2	<i>Emission of first 50m (g/hr)</i>			0.5			0.6			0.5			0.5			1.3			1.5			1.4											
						<i>Emission of second 50m (g/hr)</i>																														0.3			0.3			0.3			0.2			0.6			0.6			0.7			0.7					
						698	0.012	1.5	557	0.017	1.6	499	0.017	1.5	498	0.016	1.4	1093	0.019	3.5	1126	0.018	3.5	1223	0.019	4.0	1238	0.018	3.9	<i>Emission of first 50m (g/hr)</i>			0.5			0.5			0.5			1.2			1.3			1.3														
FSP	7609	North Lantau Tunnel 1 - North Portal	419	832	100%	698	0.012	1.5	557	0.017	1.6	499	0.017	1.5	498	0.016	1.4	1093	0.019	3.5	1126	0.018	3.5	1223	0.019	4.0	1238	0.018	3.9	<i>Emission of first 50m (g/hr)</i>			0.5			0.5			0.5			1.2			1.3			1.3														
						<i>Emission of second 50m (g/hr)</i>																														0.2			0.3			0.3			0.6			0.6			0.7			0.7								
						698	0.012	1.5	557	0.017	1.6	499	0.017	1.5	498	0.016	1.4	1093	0.019	3.5	1126	0.018	3.5	1223	0.019	4.0	1238	0.018	3.9	<i>Emission of first 50m (g/hr)</i>			0.5			0.5			0.5			1.2			1.3			1.3														
RSP	1039	North Lantau Tunnel 1 - South Portal	347	681	100%	2023	0.007	6.1	1516	0.009	5.6	1337	0.009	5.2	1359	0.008	4.6	647	0.017	4.7	667	0.017	4.7	725	0.017	5.2	731	0.017	5.1	<i>Emission of first 50m (g/hr)</i>			2.1			1.9			1.8			1.6			1.6			1.8			1.7											
						<i>Emission of second 50m (g/hr)</i>																														1.0			1.0			0.9			0.8			0.8			0.9			0.9								
						2023	0.007	6.1	1516	0.008	5.2	1337	0.008	4.8	1359	0.007	4.3	647	0.016	4.4	667	0.015	4.3	725	0.016	4.8	731	0.015	4.7	<i>Emission of first 50m (g/hr)</i>			1.9			1.8			1.6			1.6			1.8			1.7														
FSP	1039	North Lantau Tunnel 1 - South Portal	347	681	100%	2023	0.007	6.1	1516	0.008	5.2	1337	0.008	4.8	1359	0.007	4.3	647	0.016	4.4	667	0.015	4.3	725	0.016	4.8	731	0.015	4.7	<i>Emission of first 50m (g/hr)</i>			1.9			1.8			1.6			1.6			1.8			1.7														
						<i>Emission of second 50m (g/hr)</i>																														1.0			0.9			0.8			0.7			0.7			0.8			0.8								
						2023	0.007	6.1	1516	0.008	5.2	1337	0.008	4.8	1359	0.007	4.3	647	0.016	4.4	667	0.015	4.3	725	0.016	4.8	731	0.015	4.7	<i>Emission of first 50m (g/hr)</i>			1.9			1.8			1.6			1.6			1.8			1.7														
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 17			Hr 18			Hr 19			Hr 20			Hr 21			Hr 22			Hr 23			Hr 24																																			
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)																														
RSP	7609	North Lantau Tunnel 1 - North Portal	419	832	100%	1304	0.020	4.5	1446	0.018	4.5	1455	0.014	3.6	1105	0.014	2.7	912	0.014	2.2	859	0.013	1.9	844	0.012	1.7	648	0.012	1.3	<i>Emission of first 50m (g/hr)</i>			1.5			1.5			1.2			0.9			0.7			0.6			0.6											
						<i>Emission of second 50m (g/hr)</i>																														0.8			0.8			0.6			0.5			0.4			0.3			0.3								
						1304	0.018	4.1	1446	0.017	4.1	1455	0.013	3.3	1105	0.013	2.5	912	0.013	2.0	859	0.012	1.7	844	0.011	1.6	648	0.011	1.2	<i>Emission of first 50m (g/hr)</i>			1.4			1.4			1.1			0.8			0.7			0.6														
FSP	7609	North Lantau Tunnel 1 - North Portal	419	832	100%	1304	0.018	4.1	1446	0.017	4.1	1455	0.013	3.3	1105	0.013	2.5	912	0.013	2.0	859	0.012	1.7	844	0.011	1.6	648	0.011	1.2	<i>Emission of first 50m (g/hr)</i>			1.4			1.4			1.1			0.8			0.7			0.6														
						<i>Emission of second 50m (g/hr)</i>																														0.7			0.7			0.6			0.4			0.3			0.3											
						1304	0.018	4.1	1446	0.017	4.1	1455	0.013	3.3	1105	0.013	2.5	912	0.013	2.0	859	0.012	1.7	844	0.011	1.6	648	0.011	1.2	<i>Emission of first 50m (g/hr)</i>			1.4			1.4			1.1			0.8			0.7			0.6														
RSP	1039	North Lantau Tunnel 1 - South Portal	347	681	100%	772	0.016	5.4	855	0.015	5.5	853	0.012	4.5	650	0.013	3.6	534	0.013	3.0	503	0.012	2.6	495	0.012	2.5	381	0.012	1.9	<i>Emission of first 50m (g/hr)</i>			1.8			1.9			1.5			1.2			1.0			0.9														
						<i>Emission of second 50m (g/hr)</i>																														0.9			0.9			0.8			0.6			0.5			0.4			0.4								
						772	0.015	4.9	855	0.014	5.0	853	0.011	4.1	650	0.012	3.3	534	0.012	2.7	503	0.011	2.4	495	0.011	2.3	381	0.011	1.8	<i>Emission of first 50m (g/hr)</i>			1.7			1.7			1.4			1.1			0.9			0.8														
FSP	1039	North Lantau Tunnel 1 - South Portal	347	681	100%	772	0.015	4.9	855	0.014	5.0	853	0.011	4.1	650	0.012	3.3	534	0.012	2.7	503	0.011	2.4	495	0.011	2.3	381	0.011	1.8	<i>Emission of first 50m (g/hr)</i>			1.7			1.7			1.4			1.1			0.9			0.8														
						<i>Emission of second 50m (g/hr)</i>																														0.8			0.9			0.7			0.5			0.4			0.4											
						772	0.015	4.9	855	0.014	5.0	853	0.011	4.1	650	0.012	3.3	534	0.012	2.7	503	0.011	2.4	495	0.011	2.3	381	0.011	1.8	<i>Emission of first 50m (g/hr)</i>			1.7			1.7			1.4			1.1			0.9			0.8														

Hourly Emission of Portal at North Lantau Tunnel 2 Portal (1st Jan, Short Term, Year 2033)

Pollutant	Flow ID	Road Link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 01			Hr 02			Hr 03			Hr 04			Hr 05			Hr 06			Hr 07			Hr 08			
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)
RSP	7610	North Lantau Tunnel 2 - Northeast Portal	500	629	100%	65	0.0198	0.5	44	0.0214	0.4	30	0.0184	0.2	20	0.021	0.2	27	0.0202	0.2	48	0.0225	0.4	106	0.0219	0.9	211	0.0153	1.3	
	<i>Emission of first 50m (g/hr)</i>						0.3			0.2			0.1			0.1			0.1			0.2			0.5			0.7		
	<i>Emission of second 50m (g/hr)</i>						0.1			0.1			0.1			0.0			0.1			0.1			0.2			0.3		
FSP	7610	North Lantau Tunnel 2 - Northeast Portal	500	629	100%	65	0.0181	0.5	44	0.0197	0.3	30	0.0169	0.2	20	0.0193	0.2	27	0.0186	0.2	48	0.0207	0.4	106	0.0202	0.8	211	0.014	1.2	
	<i>Emission of first 50m (g/hr)</i>						0.2			0.2			0.1			0.1			0.1			0.2			0.4			0.6		
	<i>Emission of second 50m (g/hr)</i>						0.1			0.1			0.0			0.1			0.1			0.1			0.2			0.3		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 09			Hr 10			Hr 11			Hr 12			Hr 13			Hr 14			Hr 15			Hr 16			
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)
RSP	7610	North Lantau Tunnel 2 - Northeast Portal	500	629	100%	213	0.017	1.4	187	0.025	1.8	171	0.025	1.7	166	0.023	1.5	74	0.029	0.8	75	0.028	0.8	80	0.028	0.9	81	0.027	0.9	
	<i>Emission of first 50m (g/hr)</i>						0.8			1.0			0.9			0.8			0.4			0.4			0.5			0.5		
	<i>Emission of second 50m (g/hr)</i>						0.4			0.5			0.4			0.4			0.2			0.2			0.2			0.2		
FSP	7610	North Lantau Tunnel 2 - Northeast Portal	500	629	100%	213	0.016	1.3	187	0.023	1.7	171	0.023	1.5	166	0.021	1.4	74	0.027	0.8	75	0.026	0.8	80	0.026	0.8	81	0.025	0.8	
	<i>Emission of first 50m (g/hr)</i>						0.7			0.9			0.8			0.7			0.4			0.4			0.4			0.4		
	<i>Emission of second 50m (g/hr)</i>						0.3			0.4			0.4			0.4			0.2			0.2			0.2			0.2		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 17			Hr 18			Hr 19			Hr 20			Hr 21			Hr 22			Hr 23			Hr 24			
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)
RSP	7610	North Lantau Tunnel 2 - Northeast Portal	500	629	100%	86	0.028	0.9	101	0.029	1.1	108	0.025	1.0	85	0.025	0.8	72	0.028	0.8	69	0.028	0.8	66	0.026	0.7	51	0.025	0.5	
	<i>Emission of first 50m (g/hr)</i>						0.5			0.6			0.6			0.4			0.4			0.4			0.3			0.3		
	<i>Emission of second 50m (g/hr)</i>						0.3			0.3			0.3			0.2			0.2			0.2			0.2			0.1		
FSP	7610	North Lantau Tunnel 2 - Northeast Portal	500	629	100%	86	0.026	0.9	101	0.027	1.1	108	0.023	1.0	85	0.023	0.8	72	0.025	0.7	69	0.026	0.7	66	0.023	0.6	51	0.023	0.5	
	<i>Emission of first 50m (g/hr)</i>						0.5			0.6			0.5			0.4			0.4			0.4			0.3			0.2		
	<i>Emission of second 50m (g/hr)</i>						0.2			0.3			0.3			0.2			0.2			0.2			0.2			0.1		



Hourly Emission of Lam Tei Tunnel Portal (1st Jan, Long Term, Year 2048)

Pollutant	Flow ID	Road Link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 01			Hr 02			Hr 03			Hr 04			Hr 05			Hr 06			Hr 07			Hr 08		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	1010	LTT – North Portal	4223	4850	40%	971	0.1486	435.0	663	0.1531	305.9	455	0.1554	213.1	347	0.1565	163.6	400	0.1592	192.0	738	0.1628	362.1	1678	0.1676	847.7	3434	0.1667	1725.7
						<i>Emission of first 50m (g/hr)</i>						101.0	71.0	49.5	38.0	44.6	84.1	196.8	400.7										
						<i>Emission of second 50m (g/hr)</i>						50.5	35.5	24.7	19.0	22.3	42.0	98.4	200.3										
NO2	1010	LTT – North Portal	4223	4850	40%	971	0.0261	76.4	663	0.0276	55.2	455	0.029	39.8	347	0.0298	31.1	400	0.031	37.3	738	0.0326	72.5	1678	0.0342	173.1	3434	0.0328	339.2
						<i>Emission of first 50m (g/hr)</i>						17.7	12.8	9.2	7.2	8.7	16.8	40.2	78.8										
						<i>Emission of second 50m (g/hr)</i>						8.9	6.4	4.6	3.6	4.3	8.4	20.1	39.4										
NO	1009	LTT – South Portal	4226	4869	40%	1217	0.1409	518.7	827	0.1453	363.7	566	0.1478	253.2	429	0.1492	193.7	495	0.152	227.7	908	0.1549	425.6	2056	0.1601	995.8	4205	0.1636	2081.6
						<i>Emission of first 50m (g/hr)</i>						120.0	84.2	58.6	44.8	52.7	98.5	230.5	481.8										
						<i>Emission of second 50m (g/hr)</i>						60.0	42.1	29.3	22.4	26.4	49.3	115.2	240.9										
NO2	1009	LTT – South Portal	4226	4869	40%	1217	0.022	81.0	827	0.0234	58.5	566	0.025	42.7	429	0.0257	33.4	495	0.0271	40.6	908	0.0285	78.2	2056	0.0301	187.6	4205	0.0297	378.1
						<i>Emission of first 50m (g/hr)</i>						18.7	13.5	9.9	7.7	9.4	18.1	43.4	87.5										
						<i>Emission of second 50m (g/hr)</i>						9.4	6.8	4.9	3.9	4.7	9.1	21.7	43.7										
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 09			Hr 10			Hr 11			Hr 12			Hr 13			Hr 14			Hr 15			Hr 16		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	1010	LTT – North Portal	4223	4850	40%	3493	0.154	1624.4	3162	0.181	1720.0	2983	0.189	1701.0	2865	0.179	1546.2	2998	0.161	1452.1	3095	0.164	1534.1	3294	0.160	1590.2	3400	0.167	1709.0
						<i>Emission of first 50m (g/hr)</i>						377.2	399.4	394.9	359.0	337.2	356.2	369.2	396.8										
						<i>Emission of second 50m (g/hr)</i>						188.6	199.7	197.5	179.5	168.6	178.1	184.6	198.4										
NO2	1010	LTT – North Portal	4223	4850	40%	3493	0.033	349.9	3162	0.042	402.5	2983	0.045	405.4	2865	0.041	355.1	2998	0.036	328.2	3095	0.034	319.5	3294	0.036	358.0	3400	0.035	357.9
						<i>Emission of first 50m (g/hr)</i>						81.3	93.5	94.1	82.5	76.2	74.2	83.1	83.1										
						<i>Emission of second 50m (g/hr)</i>						40.6	46.7	47.1	41.2	38.1	37.1	41.6	41.5										
NO	1009	LTT – South Portal	4226	4869	40%	4256	0.151	1944.4	3716	0.174	1952.6	3468	0.184	1926.0	3365	0.173	1759.2	2793	0.181	1533.5	2875	0.183	1593.1	3145	0.183	1743.3	3161	0.187	1787.9
						<i>Emission of first 50m (g/hr)</i>						450.0	451.9	445.8	407.2	354.9	368.7	403.5	413.8										
						<i>Emission of second 50m (g/hr)</i>						225.0	226.0	222.9	203.6	177.5	184.3	201.7	206.9										
NO2	1009	LTT – South Portal	4226	4869	40%	4256	0.030	384.6	3716	0.038	424.4	3468	0.041	428.0	3365	0.037	373.1	2793	0.046	389.3	2875	0.044	385.5	3145	0.046	436.6	3161	0.045	429.2
						<i>Emission of first 50m (g/hr)</i>						89.0	98.2	99.1	86.3	90.1	89.2	101.0	99.3										
						<i>Emission of second 50m (g/hr)</i>						44.5	49.1	49.5	43.2	45.0	44.6	50.5	49.7										
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 17			Hr 18			Hr 19			Hr 20			Hr 21			Hr 22			Hr 23			Hr 24		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	1010	LTT – North Portal	4223	4850	40%	3613	0.162	1763.8	4163	0.150	1877.4	4449	0.122	1637.0	3411	0.119	1221.6	2844	0.130	1109.9	2681	0.132	1067.2	2655	0.132	1058.8	2038	0.134	823.9
						<i>Emission of first 50m (g/hr)</i>						409.5	435.9	380.1	283.6	257.7	247.8	245.8	191.3										
						<i>Emission of second 50m (g/hr)</i>						204.8	218.0	190.0	141.8	128.9	123.9	122.9	95.7										
NO2	1010	LTT – North Portal	4223	4850	40%	3613	0.034	373.1	4163	0.030	371.0	4449	0.022	292.6	3411	0.021	219.6	2844	0.021	181.7	2681	0.019	152.0	2655	0.017	138.9	2038	0.019	113.7
						<i>Emission of first 50m (g/hr)</i>						86.6	86.1	67.9	51.0	42.2	35.3	32.2	26.4										
						<i>Emission of second 50m (g/hr)</i>						43.3	43.1	34.0	25.5	21.1	17.6	16.1	13.2										
NO	1009	LTT – South Portal	4226	4869	40%	3314	0.183	1839.6	3631	0.170	1867.7	3550	0.137	1473.7	2682	0.132	1073.5	2208	0.142	951.3	2072	0.145	906.6	2027	0.144	883.8	1573	0.146	696.6
						<i>Emission of first 50m (g/hr)</i>						425.7	432.3	341.1	248.4	220.2	209.8	204.6	161.2										
						<i>Emission of second 50m (g/hr)</i>						212.9	216.1	170.5	124.2	110.1	104.9	102.3	80.6										
NO2	1009	LTT – South Portal	4226	4869	40%	3314	0.043	431.0	3631	0.037	411.1	3550	0.028	297.9	2682	0.027	222.8	2208	0.027	182.9	2072	0.026	159.9	2027	0.024	147.9	1573	0.026	121.6
						<i>Emission of first 50m (g/hr)</i>						99.7	95.1	69.0	51.6	42.3	37.0	34.2	28.1										
						<i>Emission of second 50m (g/hr)</i>						49.9	47.6	34.5	25.8	21.2	18.5	17.1	14.1										

Hourly Emission of Tuen Mun Bypass North Tunnel Portal (1st Jan. Long Term, Year 2048)

Pollutant	Flow ID	Road Link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 01			Hr 02			Hr 03			Hr 04			Hr 05			Hr 06			Hr 07			Hr 08					
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	5009	TMB - North Portal	7453	7532	40%	496	0.1561	362.4	339	0.1603	254.3	234	0.1614	176.9	181	0.1643	139.2	213	0.1679	167.4	392	0.1705	312.9	894	0.1749	732.0	1852	0.1703	1476.1			
						<i>Emission of first 50m (g/hr)</i>			95.6			67.1			46.7			36.7			44.2			82.6			193.1			389.5		
						<i>Emission of second 50m (g/hr)</i>			47.8			33.6			23.3			18.4			22.1			41.3			96.6			194.7		
NO2	5009	TMB - North Portal	7453	7532	40%	496	0.0307	71.3	339	0.0318	50.5	234	0.0325	35.6	181	0.034	28.8	213	0.0362	36.1	392	0.037	67.9	894	0.0386	161.4	1852	0.0372	322.3			
						<i>Emission of first 50m (g/hr)</i>			18.8			13.3			9.4			7.6			9.5			17.9			42.6			85.0		
						<i>Emission of second 50m (g/hr)</i>			9.4			6.7			4.7			3.8			4.8			9.0			21.3			42.5		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 09			Hr 10			Hr 11			Hr 12			Hr 13			Hr 14			Hr 15			Hr 16					
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	5009	TMB - North Portal	7453	7532	40%	1896	0.160	1420.9	1831	0.183	1570.3	1761	0.191	1576.0	1668	0.185	1441.4	2129	0.187	1859.6	2187	0.188	1920.6	2441	0.186	2121.8	2406	0.188	2111.9			
						<i>Emission of first 50m (g/hr)</i>			374.9			414.3			415.8			380.3			490.7			506.8			559.8			557.2		
						<i>Emission of second 50m (g/hr)</i>			187.5			207.2			207.9			190.2			245.3			253.4			279.9			278.6		
NO2	5009	TMB - North Portal	7453	7532	40%	1896	0.038	336.7	1831	0.047	400.7	1761	0.050	409.2	1668	0.046	361.3	2129	0.051	508.9	2187	0.050	507.8	2441	0.050	575.2	2406	0.050	558.5			
						<i>Emission of first 50m (g/hr)</i>			88.8			105.7			108.0			95.3			134.3			134.0			151.8			147.4		
						<i>Emission of second 50m (g/hr)</i>			44.4			52.9			54.0			47.7			67.1			67.0			75.9			73.7		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 17			Hr 18			Hr 19			Hr 20			Hr 21			Hr 22			Hr 23			Hr 24					
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	5009	TMB - North Portal	7453	7532	40%	2500	0.184	2153.0	2639	0.171	2114.0	2396	0.143	1606.8	1786	0.143	1195.9	1452	0.151	1026.0	1353	0.152	965.5	1312	0.152	932.6	1026	0.154	741.1			
						<i>Emission of first 50m (g/hr)</i>			568.1			557.8			424.0			315.5			270.7			254.8			246.1			195.6		
						<i>Emission of second 50m (g/hr)</i>			284.0			278.9			212.0			157.8			135.4			127.4			123.0			97.8		
NO2	5009	TMB - North Portal	7453	7532	40%	2500	0.047	547.8	2639	0.041	505.8	2396	0.031	349.6	1786	0.032	264.8	1452	0.032	214.4	1353	0.030	190.1	1312	0.029	178.2	1026	0.030	145.9			
						<i>Emission of first 50m (g/hr)</i>			144.5			133.5			92.3			69.9			56.6			50.2			47.0			38.5		
						<i>Emission of second 50m (g/hr)</i>			72.3			66.7			46.1			34.9			28.3			25.1			23.5			19.2		

Hourly Emission of So Kwun Wat Link Road Portal (1st Jan, Long Term, Year 2048)

Pollutant	Flow ID	Road Link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 01			Hr 02			Hr 03			Hr 04			Hr 05			Hr 06			Hr 07			Hr 08		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	1011	SKWLR – East Portal	2020	2622	40%	570	0.1326	123.1	387	0.1382	87.2	263	0.1384	59.3	199	0.1427	46.3	227	0.1435	53.1	419	0.1479	101.0	945	0.1519	233.9	1930	0.15	471.6
						<i>Emission of first 50m (g/hr)</i>						25.3		17.9		12.2		9.5		10.9		20.7		48.1		96.9			
						<i>Emission of second 50m (g/hr)</i>						12.7		9.0		6.1		4.8		5.5		10.4		24.0		48.5			
NO2	1011	SKWLR – East Portal	2020	2622	40%	570	0.0177	16.4	387	0.0194	12.2	263	0.0199	8.5	199	0.0224	7.3	227	0.022	8.1	419	0.0248	16.9	945	0.0258	39.8	1930	0.0257	80.7
						<i>Emission of first 50m (g/hr)</i>						3.4		2.5		1.7		1.5		1.7		3.5		8.2		16.6			
						<i>Emission of second 50m (g/hr)</i>						1.7		1.3		0.9		0.7		0.8		1.7		4.1		8.3			
NO	1012	SKWLR – West Portal	1973	2514	40%	64	0.1664	16.6	43	0.1753	11.8	28	0.16	7.0	21	0.1681	5.5	24	0.1701	6.4	45	0.1822	12.8	105	0.1826	30.0	202	0.157	49.6
						<i>Emission of first 50m (g/hr)</i>						3.5		2.5		1.5		1.2		1.3		2.7		6.3		10.4			
						<i>Emission of second 50m (g/hr)</i>						1.7		1.2		0.7		0.6		0.7		1.3		3.1		5.2			
NO2	1012	SKWLR – West Portal	1973	2514	40%	64	0.0327	3.3	43	0.0373	2.5	28	0.0283	1.2	21	0.0295	1.0	24	0.0325	1.2	45	0.0416	2.9	105	0.0394	6.5	202	0.0288	9.1
						<i>Emission of first 50m (g/hr)</i>						0.7		0.5		0.3		0.2		0.3		0.6		1.4		1.9			
						<i>Emission of second 50m (g/hr)</i>						0.3		0.3		0.1		0.1		0.1		0.3		0.7					
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 09			Hr 10			Hr 11			Hr 12			Hr 13			Hr 14			Hr 15			Hr 16		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	1011	SKWLR – East Portal	2020	2622	40%	1940	0.133	419.4	1627	0.154	406.8	1498	0.165	402.5	1471	0.156	374.7	219	0.202	71.9	222	0.201	72.6	248	0.196	79.3	245	0.200	79.8
						<i>Emission of first 50m (g/hr)</i>						86.2		83.6		82.7		77.0		14.8		14.9		16.3		16.4			
						<i>Emission of second 50m (g/hr)</i>						43.1		41.8		41.4		38.5		7.4		7.5		8.1		8.2			
NO2	1011	SKWLR – East Portal	2020	2622	40%	1940	0.025	78.6	1627	0.031	83.2	1498	0.034	83.7	1471	0.031	73.2	219	0.058	20.7	222	0.055	20.0	248	0.056	22.4	245	0.055	22.1
						<i>Emission of first 50m (g/hr)</i>						16.2		17.1		17.2		15.0		4.2		4.1		4.6		4.5			
						<i>Emission of second 50m (g/hr)</i>						8.1		8.6		8.6		7.5		2.1		2.1		2.3		2.3			
NO	1012	SKWLR – West Portal	1973	2514	40%	204	0.145	46.1	166	0.183	47.5	149	0.193	44.8	147	0.182	41.8	308	0.207	99.8	314	0.208	101.8	357	0.204	113.6	343	0.206	110.2
						<i>Emission of first 50m (g/hr)</i>						9.7		9.9		9.4		8.7		20.9		21.3		23.8		23.1			
						<i>Emission of second 50m (g/hr)</i>						4.8		5.0		4.7		4.4		10.4		10.7		11.9		11.5			
NO2	1012	SKWLR – West Portal	1973	2514	40%	204	0.031	9.9	166	0.045	11.7	149	0.047	10.9	147	0.042	9.6	308	0.061	29.5	314	0.060	29.4	357	0.059	33.1	343	0.059	31.7
						<i>Emission of first 50m (g/hr)</i>						2.1		2.5		2.3		2.0		6.2		6.2		6.9		6.6			
						<i>Emission of second 50m (g/hr)</i>						1.0		1.2		1.1		1.0		3.1		3.1		3.5		3.3			
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 17			Hr 18			Hr 19			Hr 20			Hr 21			Hr 22			Hr 23			Hr 24		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	1011	SKWLR – East Portal	2020	2622	40%	254	0.196	81.0	271	0.187	82.4	247	0.162	65.1	184	0.162	48.4	152	0.176	43.6	143	0.179	41.6	137	0.175	39.1	107	0.179	31.1
						<i>Emission of first 50m (g/hr)</i>						16.6		16.9		13.4		10.0		9.0		8.6		8.0		6.4			
						<i>Emission of second 50m (g/hr)</i>						8.3		8.5		6.7		5.0		4.5		4.3		4.0		3.2			
NO2	1011	SKWLR – East Portal	2020	2622	40%	254	0.053	21.9	271	0.049	21.5	247	0.040	16.1	184	0.041	12.1	152	0.044	10.8	143	0.043	9.9	137	0.040	9.0	107	0.041	7.1
						<i>Emission of first 50m (g/hr)</i>						4.5		4.4		3.3		2.5		2.2		2.0		1.8		1.5			
						<i>Emission of second 50m (g/hr)</i>						2.2		2.2		1.6		1.2		1.1		1.0		0.9		0.7			
NO	1012	SKWLR – West Portal	1973	2514	40%	354	0.203	112.0	362	0.195	110.2	304	0.174	82.7	221	0.174	60.1	180	0.184	51.7	169	0.187	49.4	158	0.184	45.5	127	0.187	37.0
						<i>Emission of first 50m (g/hr)</i>						23.4		23.1		17.3		12.6		10.8		10.3		9.5		7.7			
						<i>Emission of second 50m (g/hr)</i>						11.7		11.5		8.7		6.3		5.4		5.2		4.8		3.9			
NO2	1012	SKWLR – West Portal	1973	2514	40%	354	0.056	31.0	362	0.052	29.4	304	0.044	20.7	221	0.045	15.6	180	0.047	13.3	169	0.048	12.6	158	0.046	11.3	127	0.047	9.3
						<i>Emission of first 50m (g/hr)</i>						6.5		6.2		4.3		3.3		2.8		2.6		2.4		1.9			
						<i>Emission of second 50m (g/hr)</i>						3.2		3.1		2.2		1.6		1.4		1.3		1.2		1.0			



Hourly Emission of Tai Lam Chung Tunnel (North Section) Portal (1st Jan. Long Term, Year 2048)

Pollutant	Flow ID	Road Link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 01			Hr 02			Hr 03			Hr 04			Hr 05			Hr 06			Hr 07			Hr 08					
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	1017	TLCTN – East Portal	341	2448	100%	1786	0.1382	375.7	1213	0.1426	263.3	832	0.1451	183.7	629	0.1471	140.8	726	0.1499	165.6	1328	0.1526	308.4	3001	0.1573	718.2	6134	0.187	1744.9			
						Emission of first 50m (g/hr)			34.9			24.4			17.1			13.1			15.4			28.6			66.7			161.9		
						Emission of second 50m (g/hr)			17.4			12.2			8.5			6.5			7.7			14.3			33.3			81.0		
NO2	1017	TLCTN – East Portal	341	2448	100%	1786	0.0206	55.9	1213	0.0219	40.4	832	0.0234	29.7	629	0.0246	23.5	726	0.0258	28.5	1328	0.0272	55.0	3001	0.0287	131.0	6134	0.0347	324.0			
						Emission of first 50m (g/hr)			5.2			3.8			2.8			2.2			2.6			5.1			12.2			30.1		
						Emission of second 50m (g/hr)			2.6			1.9			1.4			1.1			1.3			2.6			6.1			15.0		
NO	1016	TLCTN – West Portal	367	3126	100%	1034	0.1481	297.4	705	0.1525	208.9	483	0.1549	145.3	369	0.1575	112.9	427	0.1594	132.2	782	0.1623	246.6	1778	0.1671	577.0	3631	0.1612	1136.9			
						Emission of first 50m (g/hr)			23.3			16.3			11.4			8.8			10.3			19.3			45.1			89.0		
						Emission of second 50m (g/hr)			11.6			8.2			5.7			4.4			5.2			9.6			22.6			44.5		
NO2	1016	TLCTN – West Portal	367	3126	100%	1034	0.0258	51.8	705	0.0273	37.4	483	0.0284	26.6	369	0.03	21.5	427	0.0312	25.9	782	0.0323	49.1	1778	0.0339	117.0	3631	0.0318	224.1			
						Emission of first 50m (g/hr)			4.1			2.9			2.1			1.7			2.0			3.8			9.2			17.5		
						Emission of second 50m (g/hr)			2.0			1.5			1.0			0.8			1.0			1.9			4.6			8.8		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 09			Hr 10			Hr 11			Hr 12			Hr 13			Hr 14			Hr 15			Hr 16					
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	1017	TLCTN – East Portal	341	2448	100%	6194	0.182	1713.7	5341	0.173	1409.4	4969	0.181	1371.0	4834	0.171	1259.9	3005	0.177	809.1	3092	0.180	845.4	3385	0.178	914.9	3398	0.182	939.7			
						Emission of first 50m (g/hr)			159.0			130.8			127.2			116.9			75.1			78.5			84.9			87.2		
						Emission of second 50m (g/hr)			79.5			65.4			63.6			58.5			37.5			39.2			42.5			43.6		
NO2	1017	TLCTN – East Portal	341	2448	100%	6194	0.037	352.6	5341	0.036	295.2	4969	0.039	296.1	4834	0.035	258.3	3005	0.046	210.3	3092	0.044	208.7	3385	0.046	235.3	3398	0.045	231.1			
						Emission of first 50m (g/hr)			32.7			27.4			27.5			24.0			19.5			19.4			21.8			21.4		
						Emission of second 50m (g/hr)			16.4			13.7			13.7			12.0			9.8			9.7			10.9			10.7		
NO	1016	TLCTN – West Portal	367	3126	100%	3690	0.149	1069.3	3320	0.174	1119.8	3123	0.183	1111.3	3006	0.174	1018.1	3296	0.162	1038.3	3402	0.165	1090.3	3640	0.161	1135.4	3738	0.167	1212.1			
						Emission of first 50m (g/hr)			83.7			87.6			86.9			79.7			81.2			85.3			88.8			94.8		
						Emission of second 50m (g/hr)			41.8			43.8			43.5			39.8			40.6			42.7			44.4			47.4		
NO2	1016	TLCTN – West Portal	367	3126	100%	3690	0.032	231.8	3320	0.041	266.0	3123	0.044	267.7	3006	0.040	235.0	3296	0.038	243.4	3402	0.036	237.8	3640	0.038	266.3	3738	0.037	266.0			
						Emission of first 50m (g/hr)			18.1			20.8			20.9			18.4			19.0			18.6			20.8			20.8		
						Emission of second 50m (g/hr)			9.1			10.4			10.5			9.2			9.5			9.3			10.4			10.4		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 17			Hr 18			Hr 19			Hr 20			Hr 21			Hr 22			Hr 23			Hr 24					
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	1017	TLCTN – East Portal	341	2448	100%	3563	0.177	958.1	3894	0.164	969.8	3789	0.134	772.2	2861	0.133	578.8	2353	0.143	512.0	2207	0.145	487.6	2160	0.145	475.8	1674	0.147	374.6			
						Emission of first 50m (g/hr)			88.9			90.0			71.7			53.7			47.5			45.3			44.2			34.8		
						Emission of second 50m (g/hr)			44.5			45.0			35.8			26.9			23.8			22.6			22.1			17.4		
NO2	1017	TLCTN – East Portal	341	2448	100%	3563	0.043	230.8	3894	0.037	219.3	3789	0.028	158.7	2861	0.028	120.7	2353	0.028	99.1	2207	0.026	87.0	2160	0.025	80.7	1674	0.026	65.9			
						Emission of first 50m (g/hr)			21.4			20.4			14.7			11.2			9.2			8.1			7.5			6.1		
						Emission of second 50m (g/hr)			10.7			10.2			7.4			5.6			4.6			4.0			3.7			3.1		
NO	1016	TLCTN – West Portal	367	3126	100%	3962	0.162	1247.1	4516	0.149	1306.8	4744	0.121	1117.0	3627	0.120	843.2	3015	0.132	770.2	2843	0.134	741.6	2809	0.134	732.6	2159	0.136	571.5			
						Emission of first 50m (g/hr)			97.6			102.2			87.4			66.0			60.3			58.0			57.3			44.7		
						Emission of second 50m (g/hr)			48.8			51.1			43.7			33.0			30.1			29.0			28.7			22.4		
NO2	1016	TLCTN – West Portal	367	3126	100%	3962	0.036	273.8	4516	0.031	268.3	4744	0.023	207.1	3627	0.022	157.1	3015	0.022	129.7	2843	0.020	110.3	2809	0.019	101.0	2159	0.020	82.7			
						Emission of first 50m (g/hr)			21.4			21.0			16.2			12.3			10.2			8.6			7.9			6.5		
						Emission of second 50m (g/hr)			10.7			10.5			8.1			6.1			5.1			4.3			4.0			3.2		

Hourly Emission of Tai Lam Chung Tunnel (South Section) - North Portal (1st Jan. Long Term, Year 2048)

Pollutant	Flow ID	Road Link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 01			Hr 02			Hr 03			Hr 04			Hr 05			Hr 06			Hr 07			Hr 08					
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	1016	TLCTS – North Portal	1699	3126	40%	1034	0.1481	297.4	705	0.1525	208.9	483	0.1549	145.3	369	0.1575	112.9	427	0.1594	132.2	782	0.1623	246.6	1778	0.1671	577.0	3631	0.1612	1136.9			
						<i>Emission of first 50m (g/hr)</i>			43.1			30.3			21.1			16.4			19.2			35.7			83.7			164.8		
						<i>Emission of second 50m (g/hr)</i>			21.6			15.1			10.5			8.2			9.6			17.9			41.8			82.4		
NO2	1016	TLCTS – North Portal	1699	3126	40%	1034	0.0258	51.8	705	0.0273	37.4	483	0.0284	26.6	369	0.03	21.5	427	0.0312	25.9	782	0.0323	49.1	1778	0.0339	117.0	3631	0.0318	224.1			
						<i>Emission of first 50m (g/hr)</i>			7.5			5.4			3.9			3.1			3.7			7.1			17.0			32.5		
						<i>Emission of second 50m (g/hr)</i>			3.8			2.7			1.6			1.9			3.6			8.5			16.2			32.5		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 09			Hr 10			Hr 11			Hr 12			Hr 13			Hr 14			Hr 15			Hr 16					
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	1016	TLCTS – North Portal	1699	3126	40%	3690	0.149	1069.3	3320	0.174	1119.8	3123	0.183	1111.3	3006	0.174	1018.1	3296	0.162	1038.3	3402	0.165	1090.3	3640	0.161	1135.4	3738	0.167	1212.1			
						<i>Emission of first 50m (g/hr)</i>			155.0			162.3			161.1			147.6			150.5			158.1			164.6			175.7		
						<i>Emission of second 50m (g/hr)</i>			77.5			81.2			80.6			73.8			75.3			79.0			82.3			87.9		
NO2	1016	TLCTS – North Portal	1699	3126	40%	3690	0.032	231.8	3320	0.041	266.0	3123	0.044	267.7	3006	0.040	235.0	3296	0.038	243.4	3402	0.036	237.8	3640	0.038	266.3	3738	0.037	266.0			
						<i>Emission of first 50m (g/hr)</i>			33.6			38.6			38.8			34.1			35.3			34.5			38.6			38.6		
						<i>Emission of second 50m (g/hr)</i>			16.8			19.3			19.4			17.0			17.6			17.2			19.3			19.3		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 17			Hr 18			Hr 19			Hr 20			Hr 21			Hr 22			Hr 23			Hr 24					
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	1016	TLCTS – North Portal	1699	3126	40%	3962	0.162	1247.1	4516	0.149	1306.8	4744	0.121	1117.0	3627	0.120	843.2	3015	0.132	770.2	2843	0.134	741.6	2809	0.134	732.6	2159	0.136	571.5			
						<i>Emission of first 50m (g/hr)</i>			180.8			189.5			161.9			122.2			111.7			107.5			106.2			82.8		
						<i>Emission of second 50m (g/hr)</i>			90.4			94.7			81.0			61.1			55.8			53.8			53.1			41.4		
NO2	1016	TLCTS – North Portal	1699	3126	40%	3962	0.036	273.8	4516	0.031	268.3	4744	0.023	207.1	3627	0.022	157.1	3015	0.022	129.7	2843	0.020	110.3	2809	0.019	101.0	2159	0.020	82.7			
						<i>Emission of first 50m (g/hr)</i>			39.7			38.9			30.0			22.8			18.8			16.0			14.6			12.0		
						<i>Emission of second 50m (g/hr)</i>			19.8			19.5			15.0			11.4			9.4			8.0			7.3			6.0		

Hourly Emission of Tai Lam Chung Tunnel (South Section) - South Portal (1st Jan, Long Term, Year 2048)

Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 01			Hr 02			Hr 03			Hr 04			Hr 05			Hr 06			Hr 07			Hr 08		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	1017	TLCTS – Southeast Portal	1200	2448	16%	1786	0.138	375.7	1213	0.143	263.3	832	0.145	183.7	629	0.147	140.8	726	0.150	165.6	1328	0.153	308.4	3001	0.157	718.2	6134	0.187	1744.9
	1019	TLCTS – Southeast Portal	620	792	40%	345	0.250	42.5	238	0.253	29.6	167	0.253	20.8	129	0.261	16.5	150	0.264	19.5	285	0.287	40.2	656	0.332	107.0	1383	0.409	278.0
	<i>Emission of first 50m (g/hr)</i>						28.9		20.3		14.2		11.0		12.9		6.5		24.9		12.4		60.7		30.4		151.3		75.7
<i>Emission of second 50m (g/hr)</i>						14.5		10.1		7.1		5.5		6.5		3.2		12.4		6.2		30.4		15.1		75.7		37.9	
NO2	1017	TLCTS – Southeast Portal	1200	2448	16%	1786	0.021	55.9	1213	0.022	40.4	832	0.023	29.7	629	0.025	23.5	726	0.026	28.5	1328	0.027	55.0	3001	0.029	131.0	6134	0.035	324.0
	1019	TLCTS – Southeast Portal	620	792	40%	345	0.054	9.1	238	0.055	6.5	167	0.056	4.6	129	0.059	3.7	150	0.059	4.4	285	0.067	9.4	656	0.080	25.8	1383	0.103	69.9
	<i>Emission of first 50m (g/hr)</i>						4.9		3.5		2.5		2.0		2.4		1.5		4.9		2.4		12.4		6.2		31.9		16.0
<i>Emission of second 50m (g/hr)</i>						2.4		1.8		1.3		1.0		1.2		0.7		2.5		1.2		6.2		3.1		16.0		16.0	
NO	1017	TLCTS – Southwest Portal	1200	2448	24%	1786	0.138	375.7	1213	0.143	263.3	832	0.145	183.7	629	0.147	140.8	726	0.150	165.6	1328	0.153	308.4	3001	0.157	718.2	6134	0.187	1744.9
	1020	TLCTS – Southwest Portal	629	629	40%	1444	0.134	75.8	973	0.139	52.7	662	0.141	36.4	500	0.142	27.8	572	0.145	32.3	1046	0.148	60.5	2343	0.152	139.3	4754	0.151	281.4
	<i>Emission of first 50m (g/hr)</i>						49.2		34.4		23.9		18.3		21.4		13.3		40.0		20.0		92.6		46.3		209.9		104.9
<i>Emission of second 50m (g/hr)</i>						24.6		17.2		12.0		9.1		10.7		6.7		20.0		10.0		46.3		23.1		104.9		52.5	
NO2	1017	TLCTS – Southwest Portal	1200	2448	24%	1786	0.021	55.9	1213	0.022	40.4	832	0.023	29.7	629	0.025	23.5	726	0.026	28.5	1328	0.027	55.0	3001	0.029	131.0	6134	0.035	324.0
	1020	TLCTS – Southwest Portal	629	629	40%	1444	0.018	10.3	973	0.019	7.3	662	0.021	5.3	500	0.022	4.3	572	0.023	5.1	1046	0.024	10.0	2343	0.026	23.4	4754	0.025	45.6
	<i>Emission of first 50m (g/hr)</i>						7.1		5.1		3.7		3.0		3.6		2.3		6.9		3.6		16.4		8.2		37.2		18.6
<i>Emission of second 50m (g/hr)</i>						3.5		2.5		1.9		1.5		1.8		1.2		3.5		1.8		8.2		4.1		18.6		9.3	

Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 09			Hr 10			Hr 11			Hr 12			Hr 13			Hr 14			Hr 15			Hr 16			
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)
NO	1017	TLCTS – Southeast Portal	1200	2448	16%	6194	0.182	1713.7	5341	0.173	1409.4	4969	0.181	1371.0	4834	0.171	1259.9	3005	0.177	809.1	3092	0.180	845.4	3385	0.178	914.9	3398	0.182	939.7	
	1019	TLCTS – Southeast Portal	620	792	40%	1423	0.416	290.8	1448	0.499	355.3	1422	0.520	364.0	1327	0.483	315.1	1254	0.317	195.6	1297	0.319	203.3	1380	0.330	224.2	1427	0.331	232.5	
	<i>Emission of first 50m (g/hr)</i>						152.3		149.5		149.3		133.2		84.1		87.6		95.7		98.8		47.9		49.4		98.8		49.4	
<i>Emission of second 50m (g/hr)</i>						76.2		74.8		74.7		66.6		42.0		43.8		47.9		47.9		47.9		47.9		47.9		47.9		47.9
NO2	1017	TLCTS – Southeast Portal	1200	2448	16%	6194	0.037	352.6	5341	0.036	295.2	4969	0.039	296.1	4834	0.035	258.3	3005	0.046	210.3	3092	0.044	208.7	3385	0.046	235.3	3398	0.045	231.1	
	1019	TLCTS – Southeast Portal	620	792	40%	1423	0.109	76.5	1448	0.135	96.4	1422	0.144	101.0	1327	0.130	84.9	1254	0.078	48.0	1297	0.074	47.1	1380	0.082	55.4	1427	0.078	54.9	
	<i>Emission of first 50m (g/hr)</i>						34.8		35.9		36.9		31.5		21.3		21.0		24.2		23.8		23.8		23.8		23.8		23.8	
<i>Emission of second 50m (g/hr)</i>						17.4		18.0		18.5		15.8		10.6		10.5		11.9		11.9		11.9		11.9		11.9		11.9		
NO	1017	TLCTS – Southwest Portal	1200	2448	24%	6194	0.182	1713.7	5341	0.173	1409.4	4969	0.181	1371.0	4834	0.171	1259.9	3005	0.177	809.1	3092	0.180	845.4	3385	0.178	914.9	3398	0.182	939.7	
	1020	TLCTS – Southwest Portal	629	629	40%	4773	0.134	250.8	3893	0.155	236.1	3546	0.166	229.4	3508	0.156	213.7	1750	0.195	133.5	1797	0.196	137.5	2010	0.192	151.1	1973	0.195	150.5	
	<i>Emission of first 50m (g/hr)</i>						199.3		171.9		167.1		154.3		98.1		102.0		111.0		112.7		56.4		56.4		112.7		56.4	
<i>Emission of second 50m (g/hr)</i>						99.6		85.9		83.6		77.2		49.1		51.0		55.5		55.5		55.5		55.5		55.5		55.5		
NO2	1017	TLCTS – Southwest Portal	1200	2448	24%	6194	0.037	352.6	5341	0.036	295.2	4969	0.039	296.1	4834	0.035	258.3	3005	0.046	210.3	3092	0.044	208.7	3385	0.046	235.3	3398	0.045	231.1	
	1020	TLCTS – Southwest Portal	629	629	40%	4773	0.024	44.8	3893	0.031	46.5	3546	0.033	45.7	3508	0.029	40.0	1750	0.055	37.7	1797	0.054	37.7	2010	0.054	42.4	1973	0.053	41.2	
	<i>Emission of first 50m (g/hr)</i>						39.2		35.2		35.1		30.6		26.3		26.2		29.5		28.8		28.8		28.8		28.8		28.8	
<i>Emission of second 50m (g/hr)</i>						19.6		17.6		17.5		15.3		13.2		13.1		14.7		14.7		14.7		14.7		14.7		14.7		

Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 17			Hr 18			Hr 19			Hr 20			Hr 21			Hr 22			Hr 23			Hr 24		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	1017	TLCTS – Southeast Portal	1200	2448	16%	3563	0.177	958.1	3894	0.164	969.8	3789	0.134	772.2	2861	0.133	578.8	2353	0.143	512.0	2207	0.145	487.6	2160	0.145	475.8	1674	0.147	374.6
	1019	TLCTS – Southeast Portal	620	792	40%	1514	0.319	237.8	1739	0.288	246.0	1865	0.222	203.2	1427	0.206	144.4	1189	0.207	121.0	1120	0.205	112.7	1109	0.202	109.9	852	0.198	83.0
	<i>Emission of first 50m (g/hr)</i>						100.9		103.2		83.7		61.1		52.6		49.6		48.4		37.4		37.4		37.4		37.4		
<i>Emission of second 50m (g/hr)</i>						50.4		51.6		41.9		30.5		26.3		24.8		24.2		18.7		18.7		18.7		18.7			
NO2	1017	TLCTS – Southeast Portal	1200	2448	16%	3563	0.043	230.8	3894	0.037	219.3	3789	0.028	158.7	2861	0.028	120.7	2353	0.028	99.1	2207	0.026	87.0	2160	0.025	80.7	1674	0.026	65.9
	1019	TLCTS – Southeast Portal	620	792	40%	1514	0.075	55.5	1739	0.063	54.0	1865	0.044	40.7	1427	0.040	28.2	1189	0.036	21.2	1120	0.031	17.1	1109	0.028	15.5	852	0.029	12.2
	<i>Emission of first 50m (g/hr)</i>						23.9		23.0		17.0		12.3		9.7		8.2		7.6		6.1		6.1		6.1		6.1		
<i>Emission of second 50m (g/hr)</i>						12.0		11.5		8.5		6.2		4.9		4.1		3.8		3.0		3.0		3.0		3.0			
NO	1017	TLCTS – Southwest Portal	1200	2448	24%	3563	0.177	958.1	3894	0.164	969.8	3789	0.134	772.2	2861	0.133	578.8	2353	0.143	512.0	2207	0.145	487.6	2160	0.145	475.8	1674	0.147	374.6



Hourly Emission of North Lantau Tunnel 1 Portal (1st Jan, Long Term, Year 2048)

Pollutant	Flow ID	Road Link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 01			Hr 02			Hr 03			Hr 04			Hr 05			Hr 06			Hr 07			Hr 08					
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	7609	North Lantau Tunnel 1 - North Portal	419	832	100%	390	0.2041	13.8	263	0.2065	9.4	181	0.2079	6.5	138	0.2135	5.1	157	0.2138	5.8	289	0.2296	11.5	655	0.2571	29.2	1325	0.2909	66.9			
						<i>Emission of first 50m (g/hr)</i>			4.6			3.2			2.2			1.7			2.0			3.9			9.8			22.5		
						<i>Emission of second 50m (g/hr)</i>			2.3			1.6			1.1			0.9			1.0			1.9			4.9			11.2		
NO2	7609	North Lantau Tunnel 1 - North Portal	419	832	100%	390	0.0369	2.5	263	0.0372	1.7	181	0.0387	1.2	138	0.042	1.0	157	0.0424	1.2	289	0.047	2.4	655	0.0546	6.2	1325	0.0627	14.4			
						<i>Emission of first 50m (g/hr)</i>			0.8			0.6			0.4			0.3			0.4			0.8			2.1			4.8		
						<i>Emission of second 50m (g/hr)</i>			0.4			0.3			0.2			0.2			0.4			0.4			1.0			2.4		
NO	1039	North Lantau Tunnel 1 - South Portal	347	681	100%	1068	0.1339	60.5	720	0.1379	42.1	489	0.14	29.0	370	0.143	22.4	424	0.1453	26.1	767	0.1475	47.9	1730	0.153	112.1	3519	0.1802	268.4			
						<i>Emission of first 50m (g/hr)</i>			20.6			14.3			9.9			7.6			8.9			16.3			38.1			91.3		
						<i>Emission of second 50m (g/hr)</i>			10.3			7.1			4.9			3.8			4.4			8.1			19.1			45.6		
NO2	1039	North Lantau Tunnel 1 - South Portal	347	681	100%	1068	0.0164	7.4	720	0.0176	5.4	489	0.0185	3.8	370	0.0201	3.2	424	0.0211	3.8	767	0.0223	7.2	1730	0.024	17.6	3519	0.0304	45.4			
						<i>Emission of first 50m (g/hr)</i>			2.5			1.8			1.3			1.1			1.3			2.5			6.0			15.4		
						<i>Emission of second 50m (g/hr)</i>			1.3			0.9			0.7			0.5			0.6			1.2			3.0			7.7		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 09			Hr 10			Hr 11			Hr 12			Hr 13			Hr 14			Hr 15			Hr 16					
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	7609	North Lantau Tunnel 1 - North Portal	419	832	100%	1341	0.274	63.7	1158	0.327	65.6	1074	0.351	65.4	1046	0.329	59.8	2368	0.509	209.0	2441	0.506	214.2	2637	0.562	257.3	2684	0.552	257.0			
						<i>Emission of first 50m (g/hr)</i>			21.4			22.0			20.1			70.2			72.0			86.4			86.3					
						<i>Emission of second 50m (g/hr)</i>			10.7			11.0			11.0			35.1			36.0			43.2			43.2					
NO2	7609	North Lantau Tunnel 1 - North Portal	419	832	100%	1341	0.064	14.9	1158	0.081	16.2	1074	0.088	16.3	1046	0.079	14.3	2368	0.136	55.9	2441	0.130	55.2	2637	0.150	68.7	2684	0.144	67.2			
						<i>Emission of first 50m (g/hr)</i>			5.0			5.4			5.5			4.8			18.8			18.6			23.1			22.6		
						<i>Emission of second 50m (g/hr)</i>			2.5			2.7			2.4			9.4			9.3			11.5			11.3					
NO	1039	North Lantau Tunnel 1 - South Portal	347	681	100%	3527	0.163	243.6	2853	0.162	195.8	2598	0.171	187.8	2571	0.161	175.2	1284	0.180	97.6	1323	0.182	101.8	1432	0.177	107.6	1454	0.182	112.0			
						<i>Emission of first 50m (g/hr)</i>			82.8			66.6			63.8			59.6			33.2			34.6			36.6			38.1		
						<i>Emission of second 50m (g/hr)</i>			41.4			33.3			31.9			29.8			16.6			17.3			18.3			19.0		
NO2	1039	North Lantau Tunnel 1 - South Portal	347	681	100%	3527	0.030	45.1	2853	0.030	36.2	2598	0.032	34.7	2571	0.028	30.1	1284	0.043	23.4	1323	0.041	23.0	1432	0.042	25.7	1454	0.041	25.5			
						<i>Emission of first 50m (g/hr)</i>			15.3			12.3			11.8			10.2			7.9			7.8			8.7			8.7		
						<i>Emission of second 50m (g/hr)</i>			7.7			6.2			5.9			5.1			4.0			3.9			4.4			4.3		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 17			Hr 18			Hr 19			Hr 20			Hr 21			Hr 22			Hr 23			Hr 24					
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	7609	North Lantau Tunnel 1 - North Portal	419	832	100%	2829	0.536	263.4	3170	0.554	305.0	3237	0.354	199.0	2459	0.286	122.0	2038	0.268	94.9	1914	0.256	85.0	1886	0.250	81.8	1456	0.245	61.8			
						<i>Emission of first 50m (g/hr)</i>			88.5			102.4			66.8			41.0			31.9			28.6			27.5			20.8		
						<i>Emission of second 50m (g/hr)</i>			44.2			51.2			33.4			20.5			15.9			14.3			13.7			10.4		
NO2	7609	North Lantau Tunnel 1 - North Portal	419	832	100%	2829	0.136	66.9	3170	0.137	75.2	3237	0.079	44.6	2459	0.064	27.3	2038	0.055	19.6	1914	0.048	15.9	1886	0.044	14.5	1456	0.044	11.2			
						<i>Emission of first 50m (g/hr)</i>			22.5			25.3			15.0			9.2			6.6			5.3			4.9			3.8		
						<i>Emission of second 50m (g/hr)</i>			11.2			12.6			7.5			4.6			3.3			2.7			2.4			1.9		
NO	1039	North Lantau Tunnel 1 - South Portal	347	681	100%	1534	0.177	114.9	1715	0.161	117.2	1745	0.132	97.8	1324	0.132	74.2	1100	0.143	66.7	1033	0.145	63.5	1015	0.144	61.9	782	0.147	48.5			
						<i>Emission of first 50m (g/hr)</i>			39.1			39.8			33.2			25.2			22.7			21.6			21.0			16.5		
						<i>Emission of second 50m (g/hr)</i>			19.5			19.9			16.6			12.6			11.3			10.8			10.5			8.2		
NO2	1039	North Lantau Tunnel 1 - South Portal	347	681	100%	1534	0.040	25.9	1715	0.034	24.9	1745	0.026	18.8	1324	0.026	14.3	1100	0.026	11.9	1033	0.023	10.2	1015	0.022	9.3	782	0.023	7.6			
						<i>Emission of first 50m (g/hr)</i>			8.8			8.5			6.4			4.9			4.0			3.5			3.2			2.6		
						<i>Emission of second 50m (g/hr)</i>			4.4			4.2			3.2			2.4			2.0			1.7			1.6			1.3		

Hourly Emission of North Lantau Tunnel 2 Portal (1st Jan. Long Term, Year 2048)

Pollutant	Flow ID	Road Link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 01			Hr 02			Hr 03			Hr 04			Hr 05			Hr 06			Hr 07			Hr 08			
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)
NO	7610	North Lantau Tunnel 2 - Northeast Portal	500	629	100%	627	0.1762	43.2	425	0.1782	29.6	288	0.1767	19.9	216	0.1807	15.3	246	0.1832	17.6	447	0.1956	34.2	1004	0.2268	89.1	2045	0.2618	209.5	
	<i>Emission of first 50m (g/hr)</i>						22.9			15.7			10.5			8.1			9.3			18.1			47.1			110.9		
	<i>Emission of second 50m (g/hr)</i>						11.4			7.8			5.3			4.0			4.7			9.1			23.6			55.4		
NO2	7610	North Lantau Tunnel 2 - Northeast Portal	500	629	100%	627	0.0229	5.6	425	0.0245	4.1	288	0.0248	2.8	216	0.0258	2.2	246	0.0275	2.6	447	0.0319	5.6	1004	0.0398	15.6	2045	0.0496	39.7	
	<i>Emission of first 50m (g/hr)</i>						3.0			2.2			1.5			1.2			1.4			3.0			8.3			21.0		
	<i>Emission of second 50m (g/hr)</i>						1.5			1.1			0.7			0.6			0.7			1.5			4.1			10.5		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 09			Hr 10			Hr 11			Hr 12			Hr 13			Hr 14			Hr 15			Hr 16			
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)
NO	7610	North Lantau Tunnel 2 - Northeast Portal	500	629	100%	2042	0.233	186.2	1611	0.264	166.6	1452	0.281	159.6	1451	0.261	147.9	946	0.302	111.8	976	0.303	115.5	1039	0.312	126.9	1072	0.313	131.4	
	<i>Emission of first 50m (g/hr)</i>						98.5			88.2			84.5			78.3			59.2			61.1			67.2			69.5		
	<i>Emission of second 50m (g/hr)</i>						49.3			44.1			42.2			39.1			29.6			30.6			33.6			34.8		
NO2	7610	North Lantau Tunnel 2 - Northeast Portal	500	629	100%	2042	0.047	37.7	1611	0.055	34.7	1452	0.059	33.5	1451	0.051	28.9	946	0.075	27.6	976	0.070	26.9	1039	0.077	31.4	1072	0.074	31.1	
	<i>Emission of first 50m (g/hr)</i>						20.0			18.4			17.7			15.3			14.6			14.2			16.6			16.4		
	<i>Emission of second 50m (g/hr)</i>						10.0			9.2			8.9			7.6			7.3			7.1			8.3			8.2		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 17			Hr 18			Hr 19			Hr 20			Hr 21			Hr 22			Hr 23			Hr 24			
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)
NO	7610	North Lantau Tunnel 2 - Northeast Portal	500	629	100%	1139	0.303	135.1	1317	0.275	141.9	1411	0.214	118.3	1080	0.200	84.5	901	0.203	71.6	852	0.203	67.6	842	0.195	64.3	647	0.196	49.6	
	<i>Emission of first 50m (g/hr)</i>						71.5			75.1			62.6			44.7			37.9			35.8			34.0			26.2		
	<i>Emission of second 50m (g/hr)</i>						35.8			37.6			31.3			22.4			18.9			17.9			17.0			13.1		
NO2	7610	North Lantau Tunnel 2 - Northeast Portal	500	629	100%	1139	0.071	31.6	1317	0.062	31.7	1411	0.044	24.3	1080	0.040	17.0	901	0.037	13.1	852	0.033	10.9	842	0.029	9.5	647	0.030	7.7	
	<i>Emission of first 50m (g/hr)</i>						16.7			16.8			12.8			9.0			6.9			5.8			5.0			4.1		
	<i>Emission of second 50m (g/hr)</i>						8.4			8.4			6.4			4.5			3.5			2.9			2.5			2.0		

Hourly Emission of Lam Tei Tunnel Portal (1st Jan, Short Term, Year 2048)

Pollutant	Flow ID	Road Link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 01			Hr 02			Hr 03			Hr 04			Hr 05			Hr 06			Hr 07			Hr 08																											
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)																						
NO	1010	LTT – North Portal	4223	4850	40%	971	0.1726	505.3	663	0.177	353.6	455	0.1792	245.7	347	0.1813	189.6	400	0.1834	221.1	738	0.185	411.5	1678	0.1886	954.1	3434	0.1881	1947.0																									
						<i>Emission of first 50m (g/hr)</i>						117.3	82.1						57.1						44.0						51.3						95.5						221.5						452.1					
						<i>Emission of second 50m (g/hr)</i>						58.7	41.1						28.5						22.0						25.7						47.8						110.8						226.0					
NO2	1010	LTT – North Portal	4223	4850	40%	971	0.0284	83.1	663	0.03	60.0	455	0.0315	43.2	347	0.0324	33.9	400	0.0337	40.6	738	0.0351	78.1	1678	0.0368	186.0	3434	0.0352	364.2																									
						<i>Emission of first 50m (g/hr)</i>						19.3	13.9						10.0						7.9						9.4						18.1						43.2						84.6					
						<i>Emission of second 50m (g/hr)</i>						9.6	7.0						5.0						3.9						4.7						9.1						21.6						42.3					
NO	1009	LTT – South Portal	4226	4869	40%	1217	0.1651	607.9	827	0.1695	424.2	566	0.1719	294.4	429	0.1745	226.6	495	0.1767	264.6	908	0.1774	487.4	2056	0.1815	1129.2	4205	0.1858	2364.5																									
						<i>Emission of first 50m (g/hr)</i>						140.7	98.2						68.1						52.4						61.2						112.8						261.3						547.2					
						<i>Emission of second 50m (g/hr)</i>						70.3	49.1						34.1						26.2						30.6						56.4						130.7						273.6					
NO2	1009	LTT – South Portal	4226	4869	40%	1217	0.024	88.4	827	0.0255	63.8	566	0.0272	46.5	429	0.0281	36.5	495	0.0295	44.3	908	0.0307	84.5	2056	0.0325	202.1	4205	0.032	406.7																									
						<i>Emission of first 50m (g/hr)</i>						20.5	14.8						10.8						8.5						10.2						19.6						46.8						94.1					
						<i>Emission of second 50m (g/hr)</i>						10.2	7.4						5.4						4.2						5.1						9.8						23.4						47.1					
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 09			Hr 10			Hr 11			Hr 12			Hr 13			Hr 14			Hr 15			Hr 16																											
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)																						
NO	1010	LTT – North Portal	4223	4850	40%	3493	0.174	1827.1	3162	0.200	1909.6	2983	0.213	1910.3	2865	0.205	1772.5	2998	0.184	1660.8	3095	0.193	1798.7	3294	0.187	1854.9	3400	0.195	1997.7																									
						<i>Emission of first 50m (g/hr)</i>						424.2	443.4						443.5						411.6						385.6						417.6						430.7						463.8					
						<i>Emission of second 50m (g/hr)</i>						212.1	221.7						221.8						205.8						192.8						208.8						215.3						231.9					
NO2	1010	LTT – North Portal	4223	4850	40%	3493	0.036	375.2	3162	0.045	430.0	2983	0.048	434.7	2865	0.045	384.4	2998	0.039	354.3	3095	0.037	347.9	3294	0.039	391.1	3400	0.038	390.0																									
						<i>Emission of first 50m (g/hr)</i>						87.1	99.8						100.9						89.2						82.3						80.8						90.8						90.5					
						<i>Emission of second 50m (g/hr)</i>						43.6	49.9						50.5						44.6						41.1						40.4						45.4						45.3					
NO	1009	LTT – South Portal	4226	4869	40%	4256	0.171	2202.4	3716	0.194	2185.0	3468	0.208	2185.0	3365	0.200	2039.1	2793	0.203	1712.8	2875	0.209	1815.0	3145	0.208	1977.6	3161	0.213	2032.4																									
						<i>Emission of first 50m (g/hr)</i>						509.7	505.7						505.7						471.9						396.4						420.1						457.7						470.4					
						<i>Emission of second 50m (g/hr)</i>						254.9	252.8						252.9						236.0						198.2						210.0						228.8						235.2					
NO2	1009	LTT – South Portal	4226	4869	40%	4256	0.032	413.9	3716	0.040	453.7	3468	0.044	459.2	3365	0.040	405.0	2793	0.050	418.3	2875	0.048	417.4	3145	0.050	474.4	3161	0.049	464.8																									
						<i>Emission of first 50m (g/hr)</i>						95.8	105.0						106.3						93.7						96.8						96.6						109.8						107.6					
						<i>Emission of second 50m (g/hr)</i>						47.9	52.5						53.1						46.9						48.4						48.3						54.9						53.8					
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 17			Hr 18			Hr 19			Hr 20			Hr 21			Hr 22			Hr 23			Hr 24																											
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)																						
NO	1010	LTT – North Portal	4223	4850	40%	3613	0.187	2033.1	4163	0.173	2173.4	4449	0.142	1904.5	3411	0.139	1430.9	2844	0.154	1316.5	2681	0.159	1284.0	2655	0.156	1245.6	2038	0.158	970.4																									
						<i>Emission of first 50m (g/hr)</i>						472.1	504.6						442.2						332.2						305.7						298.1						289.2						225.3					
						<i>Emission of second 50m (g/hr)</i>						236.0	252.3						221.1						166.1						152.8						149.1						144.6						112.7					
NO2	1010	LTT – North Portal	4223	4850	40%	3613	0.037	404.3	4163	0.032	404.5	4449	0.024	318.7	3411	0.023	240.8	2844	0.023	199.2	2681	0.021	167.9	2655	0.019	151.8	2038	0.020	124.3																									
						<i>Emission of first 50m (g/hr)</i>						93.9	93.9						74.0						55.9						46.2						39.0						35.2						28.9					
						<i>Emission of second 50m (g/hr)</i>						46.9	47.0						37.0						28.0						23.1						19.5						17.6						14.4					
NO	1009	LTT – South Portal	4226	4869	40%	3314	0.207	2070.9	3631	0.193	2116.0	3550	0.157	1681.4	2682	0.152	1234.1	2208	0.166	1107.3	2072	0.171	1069.0	2027	0.167	1022.3	1573	0.169	806.1																									
						<i>Emission of first 50m (g/hr)</i>						479.3	489.7						389.1						285.6						256.3						247.4						236.6						186.6					
						<i>Emission of second 50m (g/hr)</i>						239.6	244.9						194.6						142.8						128.1						123.7						118.3						93.3					
NO2	1009	LTT – South Portal	4226	4869	40%	3314	0.046	464.8	3631	0.041	445.8	3550	0.030	323.0	2682	0.030	242.0	2208	0.030	199.4	2072	0.028	175.3	2027	0.026	160.3	1573	0.028	131.9																									
						<i>Emission of first 50m (g/hr)</i>						107.6	103.2						74.8						56.0						46.1						40.6						37.1						30.5					
						<i>Emission of second 50m (g/hr)</i>						53.8	51.6						37.4						28.0						23.1						20.3						18.6						15.3					



Hourly Emission of Tuen Mun Bypass North Tunnel Portal (1st Jan. Short Term, Year 2048)

Pollutant	Flow ID	Road Link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 01			Hr 02			Hr 03			Hr 04			Hr 05			Hr 06			Hr 07			Hr 08					
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	5009	TMB - North Portal	7453	7532	40%	496	0.1792	416.0	339	0.1833	290.9	234	0.1843	201.9	181	0.1881	159.4	213	0.1908	190.2	392	0.1917	351.7	894	0.1949	815.5	1852	0.1901	1647.9			
						Emission of first 50m (g/hr)			109.8			76.8			53.3			42.1			50.2			92.8			215.2			434.8		
						Emission of second 50m (g/hr)			54.9			38.4			26.6			21.0			25.1			46.4			107.6			217.4		
NO2	5009	TMB - North Portal	7453	7532	40%	496	0.0333	77.3	339	0.0345	54.7	234	0.0352	38.5	181	0.0369	31.3	213	0.0392	39.1	392	0.0398	73.0	894	0.0413	173.0	1852	0.0398	345.2			
						Emission of first 50m (g/hr)			20.4			14.4			10.2			8.2			10.3			19.3			45.6			91.1		
						Emission of second 50m (g/hr)			10.2			7.2			5.1			4.1			5.2			9.6			22.8			45.5		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 09			Hr 10			Hr 11			Hr 12			Hr 13			Hr 14			Hr 15			Hr 16					
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	5009	TMB - North Portal	7453	7532	40%	1896	0.178	1580.3	1831	0.201	1725.2	1761	0.212	1747.1	1668	0.208	1626.1	2129	0.206	2052.7	2187	0.211	2155.1	2441	0.208	2375.2	2406	0.210	2366.5			
						Emission of first 50m (g/hr)			417.0			455.2			461.0			429.1			541.6			568.6			626.7			624.4		
						Emission of second 50m (g/hr)			208.5			227.6			230.5			214.5			270.8			284.3			313.4			312.2		
NO2	5009	TMB - North Portal	7453	7532	40%	1896	0.041	360.3	1831	0.050	427.2	1761	0.053	437.5	1668	0.050	389.4	2129	0.055	545.2	2187	0.054	548.3	2441	0.055	624.2	2406	0.054	603.2			
						Emission of first 50m (g/hr)			95.1			112.7			115.4			102.7			143.8			144.7			164.7			159.1		
						Emission of second 50m (g/hr)			47.5			56.4			57.7			51.4			71.9			72.3			82.4			79.6		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 17			Hr 18			Hr 19			Hr 20			Hr 21			Hr 22			Hr 23			Hr 24					
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	5009	TMB - North Portal	7453	7532	40%	2500	0.205	2394.1	2639	0.192	2367.9	2396	0.162	1811.7	1786	0.162	1357.0	1452	0.173	1178.3	1353	0.177	1122.5	1312	0.174	1065.6	1026	0.176	847.0			
						Emission of first 50m (g/hr)			631.7			624.8			478.0			358.1			310.9			296.2			281.2			223.5		
						Emission of second 50m (g/hr)			315.8			312.4			239.0			179.0			155.5			148.1			140.6			111.7		
NO2	5009	TMB - North Portal	7453	7532	40%	2500	0.050	590.1	2639	0.044	548.2	2396	0.034	378.3	1786	0.034	286.9	1452	0.034	233.0	1353	0.033	207.6	1312	0.031	192.3	1026	0.033	157.7			
						Emission of first 50m (g/hr)			155.7			144.6			99.8			75.7			61.5			54.8			50.8			41.6		
						Emission of second 50m (g/hr)			77.8			72.3			49.9			37.8			30.7			27.4			25.4			20.8		

Hourly Emission of So Kwun Wat Link Road Portal (1st Jan, Short Term, Year 2048)

Pollutant	Flow ID	Road Link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 01			Hr 02			Hr 03			Hr 04			Hr 05			Hr 06			Hr 07			Hr 08					
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	1011	SKWLR – East Portal	2020	2622	40%	570	0.157	145.8	387	0.1627	102.6	263	0.1627	69.7	199	0.1684	54.6	227	0.1688	62.4	419	0.1707	116.6	945	0.1737	267.5	1930	0.1719	540.6			
						<i>Emission of first 50m (g/hr)</i>						30.0	21.1		14.3			11.2			12.8			24.0			55.0			111.1		
						<i>Emission of second 50m (g/hr)</i>						15.0	10.5		7.2			5.6			6.4			12.0			27.5			55.6		
NO2	1011	SKWLR – East Portal	2020	2622	40%	570	0.0194	18.0	387	0.0212	13.4	263	0.0217	9.3	199	0.0246	8.0	227	0.0241	8.9	419	0.0269	18.3	945	0.0279	43.0	1930	0.0278	87.3			
						<i>Emission of first 50m (g/hr)</i>						3.7	2.8		1.9			1.6			1.8			3.8			8.8			17.9		
						<i>Emission of second 50m (g/hr)</i>						1.8	1.4		1.0			0.8			0.9			1.9			4.4			9.0		
NO	1012	SKWLR – West Portal	1973	2514	40%	64	0.1932	19.3	43	0.202	13.6	28	0.1862	8.1	21	0.1982	6.5	24	0.1976	7.4	45	0.2073	14.6	105	0.2067	33.9	202	0.1806	57.0			
						<i>Emission of first 50m (g/hr)</i>						4.0	2.8		1.7			1.4			1.6			3.1			7.1			11.9		
						<i>Emission of second 50m (g/hr)</i>						2.0	1.4		0.9			0.7			0.8			1.5			3.5			6.0		
NO2	1012	SKWLR – West Portal	1973	2514	40%	64	0.0355	3.6	43	0.0404	2.7	28	0.0308	1.3	21	0.0323	1.1	24	0.0354	1.3	45	0.0448	3.2	105	0.0424	7.0	202	0.031	9.8			
						<i>Emission of first 50m (g/hr)</i>						0.7	0.6		0.3			0.2			0.3			0.7			1.5			2.0		
						<i>Emission of second 50m (g/hr)</i>						0.4	0.3		0.1			0.1			0.1			0.3			0.7			1.0		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 09			Hr 10			Hr 11			Hr 12			Hr 13			Hr 14			Hr 15			Hr 16					
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	1011	SKWLR – East Portal	2020	2622	40%	1940	0.152	481.0	1627	0.174	461.0	1498	0.190	463.6	1471	0.185	442.2	219	0.222	79.1	222	0.224	81.2	248	0.219	88.6	245	0.223	89.1			
						<i>Emission of first 50m (g/hr)</i>						98.8	94.7		95.3			90.9			16.3			16.7			18.2			18.3		
						<i>Emission of second 50m (g/hr)</i>						49.4	47.4		47.6			45.4			8.1			8.3			9.1			9.2		
NO2	1011	SKWLR – East Portal	2020	2622	40%	1940	0.027	84.9	1627	0.034	89.3	1498	0.037	90.1	1471	0.033	79.5	219	0.062	22.1	222	0.060	21.6	248	0.060	24.3	245	0.060	23.8			
						<i>Emission of first 50m (g/hr)</i>						17.5	18.4		18.5			16.3			4.5			4.4			5.0			4.9		
						<i>Emission of second 50m (g/hr)</i>						8.7	9.2		9.3			8.2			2.3			2.2			2.5			2.5		
NO	1012	SKWLR – West Portal	1973	2514	40%	204	0.166	52.8	166	0.206	53.5	149	0.221	51.5	147	0.214	49.1	308	0.226	108.7	314	0.229	112.3	357	0.225	125.4	343	0.227	121.5			
						<i>Emission of first 50m (g/hr)</i>						11.0	11.2		10.8			10.3			22.7			23.5			26.3			25.4		
						<i>Emission of second 50m (g/hr)</i>						5.5	5.6		5.4			5.1			11.4			11.8			13.1			12.7		
NO2	1012	SKWLR – West Portal	1973	2514	40%	204	0.033	10.6	166	0.048	12.6	149	0.050	11.7	147	0.045	10.4	308	0.066	31.5	314	0.065	31.7	357	0.064	35.8	343	0.064	34.1			
						<i>Emission of first 50m (g/hr)</i>						2.2	2.6		2.4			2.2			6.6			6.6			7.5			7.1		
						<i>Emission of second 50m (g/hr)</i>						1.1	1.3		1.2			1.1			3.3			3.3			3.8			3.6		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 17			Hr 18			Hr 19			Hr 20			Hr 21			Hr 22			Hr 23			Hr 24					
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	1011	SKWLR – East Portal	2020	2622	40%	254	0.217	89.7	271	0.208	91.8	247	0.181	72.9	184	0.182	54.6	152	0.200	49.5	143	0.205	47.7	137	0.198	44.2	107	0.202	35.3			
						<i>Emission of first 50m (g/hr)</i>						18.4	18.9		15.0			11.2			10.2			9.8			9.1			7.2		
						<i>Emission of second 50m (g/hr)</i>						9.2	9.4		7.5			5.6			5.1			4.9			4.5			3.6		
NO2	1011	SKWLR – East Portal	2020	2622	40%	254	0.057	23.6	271	0.053	23.3	247	0.043	17.3	184	0.044	13.1	152	0.047	11.7	143	0.046	10.8	137	0.043	9.7	107	0.044	7.6			
						<i>Emission of first 50m (g/hr)</i>						4.8	4.8		3.6			2.7			2.4			2.2			2.0			1.6		
						<i>Emission of second 50m (g/hr)</i>						2.4	2.4		1.8			1.3			1.2			1.1			1.0			0.8		
NO	1012	SKWLR – West Portal	1973	2514	40%	354	0.222	122.8	362	0.215	121.6	304	0.193	91.6	221	0.194	66.8	180	0.206	58.1	169	0.212	55.9	158	0.206	50.7	127	0.209	41.4			
						<i>Emission of first 50m (g/hr)</i>						25.7	25.5		19.2			14.0			12.2			11.7			10.6			8.7		
						<i>Emission of second 50m (g/hr)</i>						12.8	12.7		9.6			7.0			6.1			5.9			5.3			4.3		
NO2	1012	SKWLR – West Portal	1973	2514	40%	354	0.060	33.3	362	0.056	31.8	304	0.047	22.3	221	0.049	16.8	180	0.051	14.3	169	0.052	13.6	158	0.049	12.2	127	0.050	10.0			
						<i>Emission of first 50m (g/hr)</i>						7.0	6.6		4.7			3.5			3.0			2.9			2.5			2.1		
						<i>Emission of second 50m (g/hr)</i>						3.5	3.3		2.3			1.8			1.5			1.4			1.3			1.0		

Hourly Emission of Tai Lam Chung Tunnel (North Section) Portal (1st Jan, Short Term, Year 2048)

Pollutant	Flow ID	Road Link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 01			Hr 02			Hr 03			Hr 04			Hr 05			Hr 06			Hr 07			Hr 08								
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)			
NO	1017	TLCTN – East Portal	341	2448	100%	1786	0.1625	441.7	1213	0.1669	308.0	832	0.1693	214.3	629	0.1725	165.1	726	0.1747	192.9	1328	0.1752	354.0	3001	0.1788	816.6	6134	0.2118	1976.9						
						<i>Emission of first 50m (g/hr)</i>						41.0			28.6			19.9			15.3			17.9			32.9			75.8					
						<i>Emission of second 50m (g/hr)</i>						20.5			14.3			9.9			7.7			9.0			16.4			37.9			91.7		
NO2	1017	TLCTN – East Portal	341	2448	100%	1786	0.0225	61.1	1213	0.0239	44.1	832	0.0255	32.3	629	0.0269	25.8	726	0.0282	31.1	1328	0.0294	59.5	3001	0.0309	141.2	6134	0.0374	349.1						
						<i>Emission of first 50m (g/hr)</i>						5.7			4.1			3.0			2.4			2.9			5.5			13.1					
						<i>Emission of second 50m (g/hr)</i>						2.8			2.0			1.5			1.2			1.4			2.8			6.6			16.2		
NO	1016	TLCTN – West Portal	367	3126	100%	1034	0.1721	345.8	705	0.1765	241.8	483	0.1789	167.8	369	0.1826	130.9	427	0.1836	152.3	782	0.1846	280.4	1778	0.1882	650.1	3631	0.1822	1285.5						
						<i>Emission of first 50m (g/hr)</i>						27.1			18.9			13.1			10.2			11.9			21.9			50.9					
						<i>Emission of second 50m (g/hr)</i>						13.5			9.5			6.6			5.1			6.0			11.0			25.4			50.3		
NO2	1016	TLCTN – West Portal	367	3126	100%	1034	0.0281	56.4	705	0.0297	40.7	483	0.0308	28.9	369	0.0327	23.4	427	0.0339	28.1	782	0.0348	52.9	1778	0.0364	125.7	3631	0.0342	241.1						
						<i>Emission of first 50m (g/hr)</i>						4.4			3.2			2.3			1.8			2.2			4.1			9.8					
						<i>Emission of second 50m (g/hr)</i>						2.2			1.6			1.1			0.9			1.1			2.1			4.9			9.4		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 09			Hr 10			Hr 11			Hr 12			Hr 13			Hr 14			Hr 15			Hr 16								
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)			
NO	1017	TLCTN – East Portal	341	2448	100%	6194	0.205	1934.8	5341	0.195	1581.3	4969	0.206	1560.6	4834	0.199	1466.8	3005	0.198	904.1	3092	0.205	962.7	3385	0.202	1038.3	3398	0.207	1068.3						
						<i>Emission of first 50m (g/hr)</i>						179.6			146.8			144.8			136.1			83.9			89.3			96.4			99.2		
						<i>Emission of second 50m (g/hr)</i>						89.8			73.4			72.4			68.1			42.0			44.7			48.2			49.6		
NO2	1017	TLCTN – East Portal	341	2448	100%	6194	0.040	378.9	5341	0.039	316.4	4969	0.042	317.6	4834	0.038	280.3	3005	0.049	225.6	3092	0.048	226.0	3385	0.050	255.6	3398	0.048	250.3						
						<i>Emission of first 50m (g/hr)</i>						35.2			29.4			29.5			26.0			20.9			21.0			23.7			23.2		
						<i>Emission of second 50m (g/hr)</i>						17.6			14.7			14.7			13.0			10.5			10.5			11.9			11.6		
NO	1016	TLCTN – West Portal	367	3126	100%	3690	0.168	1204.5	3320	0.193	1246.1	3123	0.206	1251.5	3006	0.200	1170.5	3296	0.185	1182.1	3402	0.192	1271.0	3640	0.186	1317.8	3738	0.194	1409.9						
						<i>Emission of first 50m (g/hr)</i>						94.2			97.5			97.9			91.6			92.5			99.4			103.1			110.3		
						<i>Emission of second 50m (g/hr)</i>						47.1			48.8			49.0			45.8			46.2			49.7			51.6			55.2		
NO2	1016	TLCTN – West Portal	367	3126	100%	3690	0.035	249.1	3320	0.044	284.2	3123	0.047	286.8	3006	0.044	254.1	3296	0.041	262.2	3402	0.039	258.9	3640	0.041	290.5	3738	0.040	289.5						
						<i>Emission of first 50m (g/hr)</i>						19.5			22.2			22.4			19.9			20.5			20.3			22.7			22.6		
						<i>Emission of second 50m (g/hr)</i>						9.7			11.1			11.2			9.9			10.3			10.1			11.4			11.3		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 17			Hr 18			Hr 19			Hr 20			Hr 21			Hr 22			Hr 23			Hr 24								
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)			
NO	1017	TLCTN – East Portal	341	2448	100%	3563	0.199	1077.9	3894	0.185	1098.6	3789	0.153	880.3	2861	0.153	664.9	2353	0.166	595.4	2207	0.171	574.4	2160	0.167	549.8	1674	0.170	433.1						
						<i>Emission of first 50m (g/hr)</i>						100.0			102.0			81.7			61.7			55.3			53.3			51.0			40.2		
						<i>Emission of second 50m (g/hr)</i>						50.0			51.0			40.9			30.9			27.6			26.7			25.5			20.1		
NO2	1017	TLCTN – East Portal	341	2448	100%	3563	0.046	249.4	3894	0.040	238.4	3789	0.030	172.6	2861	0.030	131.1	2353	0.030	107.9	2207	0.028	95.3	2160	0.027	87.4	1674	0.028	71.5						
						<i>Emission of first 50m (g/hr)</i>						23.1			22.1			16.0			12.2			10.0			8.8			8.1			6.6		
						<i>Emission of second 50m (g/hr)</i>						11.6			11.1			8.0			6.1			5.0			4.4			4.1			3.3		
NO	1016	TLCTN – West Portal	367	3126	100%	3962	0.186	1430.8	4516	0.172	1506.6	4744	0.140	1293.8	3627	0.140	984.7	3015	0.155	910.5	2843	0.161	888.8	2809	0.157	859.1	2159	0.160	670.9						
						<i>Emission of first 50m (g/hr)</i>						112.0			117.9			101.2			77.0			71.2			69.5			67.2			52.5		
						<i>Emission of second 50m (g/hr)</i>						56.0			58.9			50.6			38.5			35.6			34.8			33.6			26.2		
NO2	1016	TLCTN – West Portal	367	3126	100%	3962	0.039	296.9	4516	0.033	292.9	4744	0.025	226.2	3627	0.024	171.3	3015	0.024	142.1	2843	0.022	121.6	2809	0.020	110.2	2159	0.022	90.3						
						<i>Emission of first 50m (g/hr)</i>						23.2			22.9			17.7			13.4			11.1			9.5			8.6			7.1		
						<i>Emission of second 50m (g/hr)</i>						11.6			11.5			8.8			6.7			5.6			4.8			4.3			3.5		

Hourly Emission of Tai Lam Chung Tunnel (South Section) - North Portal (1st Jan. Short Term, Year 2048)

Pollutant	Flow ID	Road Link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 01			Hr 02			Hr 03			Hr 04			Hr 05			Hr 06			Hr 07			Hr 08					
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	1016	TLCTS – North Portal	1699	3126	40%	1034	0.1721	345.8	705	0.1765	241.8	483	0.1789	167.8	369	0.1826	130.9	427	0.1836	152.3	782	0.1846	280.4	1778	0.1882	650.1	3631	0.1822	1285.5			
						<i>Emission of first 50m (g/hr)</i>			50.1			35.1			24.3			19.0			22.1			40.7			94.3			186.4		
						<i>Emission of second 50m (g/hr)</i>			25.1			17.5			12.2			9.5			11.0			20.3			47.1			93.2		
NO2	1016	TLCTS – North Portal	1699	3126	40%	1034	0.0281	56.4	705	0.0297	40.7	483	0.0308	28.9	369	0.0327	23.4	427	0.0339	28.1	782	0.0348	52.9	1778	0.0364	125.7	3631	0.0342	241.1			
						<i>Emission of first 50m (g/hr)</i>			8.2			5.9			4.2			3.4			4.1			7.7			18.2			35.0		
						<i>Emission of second 50m (g/hr)</i>			4.1			2.9			2.1			1.7			2.0			3.8			9.1			17.5		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 09			Hr 10			Hr 11			Hr 12			Hr 13			Hr 14			Hr 15			Hr 16					
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	1016	TLCTS – North Portal	1699	3126	40%	3690	0.168	1204.5	3320	0.193	1246.1	3123	0.206	1251.5	3006	0.200	1170.5	3296	0.185	1182.1	3402	0.192	1271.0	3640	0.186	1317.8	3738	0.194	1409.9			
						<i>Emission of first 50m (g/hr)</i>			174.6			180.7			181.4			169.7			171.4			184.3			191.0			204.4		
						<i>Emission of second 50m (g/hr)</i>			87.3			90.3			90.7			84.8			85.7			92.1			95.5			102.2		
NO2	1016	TLCTS – North Portal	1699	3126	40%	3690	0.035	249.1	3320	0.044	284.2	3123	0.047	286.8	3006	0.044	254.1	3296	0.041	262.2	3402	0.039	258.9	3640	0.041	290.5	3738	0.040	289.5			
						<i>Emission of first 50m (g/hr)</i>			36.1			41.2			41.6			36.8			38.0			37.5			42.1			42.0		
						<i>Emission of second 50m (g/hr)</i>			18.1			20.6			20.8			18.4			19.0			18.8			21.1			21.0		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 17			Hr 18			Hr 19			Hr 20			Hr 21			Hr 22			Hr 23			Hr 24					
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	1016	TLCTS – North Portal	1699	3126	40%	3962	0.186	1430.8	4516	0.172	1506.6	4744	0.140	1293.8	3627	0.140	984.7	3015	0.155	910.5	2843	0.161	888.8	2809	0.157	859.1	2159	0.160	670.9			
						<i>Emission of first 50m (g/hr)</i>			207.4			218.4			187.6			142.7			132.0			128.9			124.6			97.3		
						<i>Emission of second 50m (g/hr)</i>			103.7			109.2			93.8			71.4			66.0			64.4			62.3			48.6		
NO2	1016	TLCTS – North Portal	1699	3126	40%	3962	0.039	296.9	4516	0.033	292.9	4744	0.025	226.2	3627	0.024	171.3	3015	0.024	142.1	2843	0.022	121.6	2809	0.020	110.2	2159	0.022	90.3			
						<i>Emission of first 50m (g/hr)</i>			43.0			42.5			32.8			24.8			20.6			17.6			16.0			13.1		
						<i>Emission of second 50m (g/hr)</i>			21.5			21.2			16.4			12.4			10.3			8.8			8.0			6.5		



Hourly Emission of Tai Lam Chung Tunnel (South Section) - South Portal (1st Jan, Short Term, Year 2048)

Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 01			Hr 02			Hr 03			Hr 04			Hr 05			Hr 06			Hr 07			Hr 08		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	1017	TLCTS – Southeast Portal	1200	2448	16%	1786	0.163	441.7	1213	0.167	308.0	832	0.169	214.3	629	0.173	165.1	726	0.175	192.9	1328	0.175	354.0	3001	0.179	816.6	6134	0.212	1976.9
	1019	TLCTS – Southeast Portal	620	792	40%	345	0.282	47.8	238	0.284	33.2	167	0.283	23.2	129	0.292	18.5	150	0.295	21.7	285	0.316	44.3	656	0.362	116.9	1383	0.445	303.0
	<i>Emission of first 50m (g/hr)</i>						33.6		23.4		16.3		12.7		14.9		28.2		68.1		168.9		68.1		168.9		168.9		168.9
<i>Emission of second 50m (g/hr)</i>						16.8		11.7		8.2		6.3		7.4		14.1		34.0		84.5		34.0		84.5		84.5		84.5	
NO2	1017	TLCTS – Southeast Portal	1200	2448	16%	1786	0.023	61.1	1213	0.024	44.1	832	0.026	32.3	629	0.027	25.8	726	0.028	31.1	1328	0.029	59.5	3001	0.031	141.2	6134	0.037	349.1
	1019	TLCTS – Southeast Portal	620	792	40%	345	0.058	9.9	238	0.060	7.0	167	0.060	4.9	129	0.063	4.0	150	0.064	4.7	285	0.072	10.1	656	0.085	27.5	1383	0.110	74.6
	<i>Emission of first 50m (g/hr)</i>						5.3		3.8		2.8		2.2		2.6		5.3		13.3		34.2		13.3		34.2		34.2		
<i>Emission of second 50m (g/hr)</i>						2.7		1.9		1.4		1.1		1.3		2.6		6.6		17.1		6.6		17.1		17.1			
NO	1017	TLCTS – Southwest Portal	1200	2448	24%	1786	0.163	441.7	1213	0.167	308.0	832	0.169	214.3	629	0.173	165.1	726	0.175	192.9	1328	0.175	354.0	3001	0.179	816.6	6134	0.212	1976.9
	1020	TLCTS – Southwest Portal	629	629	40%	1444	0.159	89.9	973	0.163	62.2	662	0.166	42.8	500	0.169	32.9	572	0.170	38.1	1046	0.171	70.0	2343	0.175	159.8	4754	0.174	324.0
	<i>Emission of first 50m (g/hr)</i>						58.1		40.4		28.0		21.5		25.1		46.0		105.7		239.1		105.7		239.1		239.1		
<i>Emission of second 50m (g/hr)</i>						29.0		20.2		14.0		10.8		12.5		23.0		52.9		119.6		52.9		119.6		119.6			
NO2	1017	TLCTS – Southwest Portal	1200	2448	24%	1786	0.023	61.1	1213	0.024	44.1	832	0.026	32.3	629	0.027	25.8	726	0.028	31.1	1328	0.029	59.5	3001	0.031	141.2	6134	0.037	349.1
	1020	TLCTS – Southwest Portal	629	629	40%	1444	0.020	11.3	973	0.021	8.1	662	0.023	5.9	500	0.024	4.7	572	0.025	5.6	1046	0.026	10.8	2343	0.028	25.3	4754	0.027	49.3
	<i>Emission of first 50m (g/hr)</i>						7.7		5.6		4.1		3.2		3.9		7.5		17.7		40.1		17.7		40.1		40.1		
<i>Emission of second 50m (g/hr)</i>						3.9		2.8		2.0		1.6		1.9		3.7		8.8		20.1		8.8		20.1		20.1			

Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 09			Hr 10			Hr 11			Hr 12			Hr 13			Hr 14			Hr 15			Hr 16		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	1017	TLCTS – Southeast Portal	1200	2448	16%	6194	0.205	1934.8	5341	0.195	1581.3	4969	0.206	1560.6	4834	0.199	1466.8	3005	0.198	904.1	3092	0.205	962.7	3385	0.202	1038.3	3398	0.207	1068.3
	1019	TLCTS – Southeast Portal	620	792	40%	1423	0.451	315.9	1448	0.537	382.8	1422	0.563	394.1	1327	0.529	345.5	1254	0.356	219.7	1297	0.365	233.1	1380	0.377	255.8	1427	0.379	266.0
	<i>Emission of first 50m (g/hr)</i>						169.4		164.5		165.7		150.6		94.2		100.1		108.9		112.6		108.9		112.6		112.6		
<i>Emission of second 50m (g/hr)</i>						84.7		82.2		82.9		75.3		47.1		50.1		54.5		56.3		56.3		56.3		56.3			
NO2	1017	TLCTS – Southeast Portal	1200	2448	16%	6194	0.040	378.9	5341	0.039	316.4	4969	0.042	317.6	4834	0.038	280.3	3005	0.049	225.6	3092	0.048	226.0	3385	0.050	255.6	3398	0.048	250.3
	1019	TLCTS – Southeast Portal	620	792	40%	1423	0.117	81.6	1448	0.144	102.5	1422	0.154	107.6	1327	0.140	91.2	1254	0.084	51.6	1297	0.080	51.0	1380	0.089	60.3	1427	0.085	59.4
	<i>Emission of first 50m (g/hr)</i>						37.3		38.3		39.5		34.0		22.8		26.3		25.8		25.8								
<i>Emission of second 50m (g/hr)</i>						18.6		19.2		19.7		17.0		11.4		13.1		12.9		12.9									
NO	1017	TLCTS – Southwest Portal	1200	2448	24%	6194	0.205	1934.8	5341	0.195	1581.3	4969	0.206	1560.6	4834	0.199	1466.8	3005	0.198	904.1	3092	0.205	962.7	3385	0.202	1038.3	3398	0.207	1068.3
	1020	TLCTS – Southwest Portal	629	629	40%	4773	0.155	289.1	3893	0.177	269.0	3546	0.192	266.2	3508	0.186	254.3	1750	0.215	146.8	1797	0.219	153.6	2010	0.215	168.6	1973	0.218	167.9
	<i>Emission of first 50m (g/hr)</i>						226.6		193.9		191.6		181.1		109.0		115.3		125.2		127.3		125.2		127.3		127.3		
<i>Emission of second 50m (g/hr)</i>						113.3		97.0		95.8		90.6		54.5		57.7		62.6		63.7		63.7							
NO2	1017	TLCTS – Southwest Portal	1200	2448	24%	6194	0.040	378.9	5341	0.039	316.4	4969	0.042	317.6	4834	0.038	280.3	3005	0.049	225.6	3092	0.048	226.0	3385	0.050	255.6	3398	0.048	250.3
	1020	TLCTS – Southwest Portal	629	629	40%	4773	0.026	48.4	3893	0.033	49.9	3546	0.036	49.4	3508	0.032	43.7	1750	0.059	40.4	1797	0.058	40.7	2010	0.059	45.9	1973	0.058	44.5
	<i>Emission of first 50m (g/hr)</i>						42.2		37.8		37.7		33.3		28.2		28.3		32.0		31.2		32.0		31.2		31.2		
<i>Emission of second 50m (g/hr)</i>						21.1		18.9		18.9		16.7		14.1		14.2		16.0		15.6		15.6							

Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 17			Hr 18			Hr 19			Hr 20			Hr 21			Hr 22			Hr 23			Hr 24		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	1017	TLCTS – Southeast Portal	1200	2448	16%	3563	0.199	1077.9	3894	0.185	1098.6	3789	0.153	880.3	2861	0.153	664.9	2353	0.166	595.4	2207	0.171	574.4	2160	0.167	549.8	1674	0.170	433.1
	1019	TLCTS – Southeast Portal	620	792	40%	1514	0.361	269.0	1739	0.327	280.1	1865	0.254	232.7	1427	0.238	167.0	1189	0.243	142.0	1120	0.244	134.3	1109	0.235	128.4	852	0.232	97.1
	<i>Emission of first 50m (g/hr)</i>						113.8		117.2		95.7		70.4		61.5		58.8		43.4		43.4								
<i>Emission of second 50m (g/hr)</i>						56.9		58.6		47.8		35.2		30.7		29.4		21.7		21.7									
NO2	1017	TLCTS – Southeast Portal	1200	2448	16%	3563	0.046	249.4	3894	0.040	238.4	3789	0.030	172.6	2861	0.030	131.1	2353	0.030	107.9	2207	0.028	95.3	2160	0.027	87.4	1674	0.028	71.5
	1019	TLCTS – Southeast Portal	620	792	40%	1514	0.080	59.9	1739	0.069	58.7	1865	0.048	44.3	1427	0.044	30.7	1189	0.040	23.2	1120	0.034	18.8	1109	0.031	16.9	852	0.032	13.3
	<i>Emission of first 50m (g/hr)</i>						25.8		25.0		18.5		13.4		10.6		9.0		8.2		6.6		6.6						
<i>Emission of second 50m (g/hr)</i>						12.9		12.5		9.2		6.7		5.3		4.5		4.1		3.3		3.3							
NO	1017	TLCTS – Southwest Portal	1200	2448	24%	3563	0.199	1077.9	3894	0.185	1098.6	3789	0.153	880.3	2861	0.153	664.9	2353	0.166	595.4	2207	0.171	574.4	2160	0.167	549.8	1674	0.170	433.1
	1020	TLCTS – Southwest Portal	629	629	40%	2050	0.212	169.7	2154	0.201	169.1	1923	0.173	130.1	1435	0.175	98.4	1164	0.187	85.2	1088	0.192	81.6	1051	0.188	77.1	822	0.190	61.2
	<i>Emission of first 50m (g/hr)</i>						128.5		130.0		102.7		77.6		68.7		66.1		49.8		49.8								
<i>Emission of second 50m (g/hr)&lt;/</i>																													

Hourly Emission of North Lantau Tunnel 1 Portal (1st Jan, Short Term, Year 2048)

Pollutant	Flow ID	Road Link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 01			Hr 02			Hr 03			Hr 04			Hr 05			Hr 06			Hr 07			Hr 08						
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	
NO	7609	North Lantau Tunnel 1 - North Portal	419	832	100%	390	0.2365	16.0	263	0.2386	10.9	181	0.2396	7.5	138	0.2468	5.9	157	0.246	6.7	289	0.2603	13.1	655	0.2884	32.8	1325	0.3262	75.0				
						<i>Emission of first 50m (g/hr)</i>						5.4			3.7			2.5			2.0			2.3			4.4			11.0			25.2
						<i>Emission of second 50m (g/hr)</i>						2.7			1.8			1.3			1.0			1.1			2.2			5.5			12.6
NO2	7609	North Lantau Tunnel 1 - North Portal	419	832	100%	390	0.0401	2.7	263	0.0404	1.8	181	0.042	1.3	138	0.0457	1.1	157	0.0459	1.3	289	0.0506	2.5	655	0.0585	6.6	1325	0.0672	15.5				
						<i>Emission of first 50m (g/hr)</i>						0.9			0.6			0.4			0.4			0.4			0.9			2.2			
						<i>Emission of second 50m (g/hr)</i>						0.5			0.3			0.2			0.2			0.4			1.1			2.6			
NO	1039	North Lantau Tunnel 1 - South Portal	347	681	100%	1068	0.1593	72.0	720	0.1634	49.8	489	0.1654	34.2	370	0.1701	26.7	424	0.1716	30.8	767	0.1715	55.7	1730	0.176	128.9	3519	0.2069	308.2				
						<i>Emission of first 50m (g/hr)</i>						24.5			16.9			11.6			9.1			10.5			18.9			104.8			
						<i>Emission of second 50m (g/hr)</i>						12.2			8.5			5.8			4.5			5.2			9.5			21.9			
NO2	1039	North Lantau Tunnel 1 - South Portal	347	681	100%	1068	0.018	8.2	720	0.0193	5.9	489	0.0203	4.2	370	0.0221	3.5	424	0.0231	4.1	767	0.0242	7.9	1730	0.0259	19.0	3519	0.0328	48.9				
						<i>Emission of first 50m (g/hr)</i>						2.8			2.0			1.4			1.2			1.4			2.7			16.6			
						<i>Emission of second 50m (g/hr)</i>						1.4			1.0			0.7			0.6			0.7			1.3			8.3			
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 09			Hr 10			Hr 11			Hr 12			Hr 13			Hr 14			Hr 15			Hr 16						
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	
NO	7609	North Lantau Tunnel 1 - North Portal	419	832	100%	1341	0.306	71.2	1158	0.361	72.5	1074	0.392	73.0	1046	0.375	68.1	2368	0.560	230.2	2441	0.566	239.7	2637	0.627	287.0	2684	0.616	286.9				
						<i>Emission of first 50m (g/hr)</i>						23.9			24.4			24.5			22.9			77.3			80.5			96.4			
						<i>Emission of second 50m (g/hr)</i>						12.0			12.2			12.3			11.4			38.7			40.3			48.2			
NO2	7609	North Lantau Tunnel 1 - North Portal	419	832	100%	1341	0.068	15.9	1158	0.086	17.3	1074	0.094	17.5	1046	0.085	15.5	2368	0.146	59.9	2441	0.141	59.7	2637	0.163	74.5	2684	0.156	72.6				
						<i>Emission of first 50m (g/hr)</i>						5.3			5.8			5.9			5.2			20.1			20.0			25.0			
						<i>Emission of second 50m (g/hr)</i>						2.7			2.9			2.9			2.6			10.1			10.0			12.2			
NO	1039	North Lantau Tunnel 1 - South Portal	347	681	100%	3527	0.187	279.7	2853	0.185	223.5	2598	0.198	218.3	2571	0.192	209.1	1284	0.202	109.9	1323	0.209	117.1	1432	0.203	123.2	1454	0.209	128.6				
						<i>Emission of first 50m (g/hr)</i>						95.1			76.0			74.2			71.1			37.4			39.8			41.9			
						<i>Emission of second 50m (g/hr)</i>						47.5			38.0			37.1			35.5			18.7			19.9			20.9			
NO2	1039	North Lantau Tunnel 1 - South Portal	347	681	100%	3527	0.033	48.5	2853	0.032	38.9	2598	0.034	37.5	2571	0.030	32.9	1284	0.046	25.1	1323	0.044	24.9	1432	0.046	28.0	1454	0.045	27.6				
						<i>Emission of first 50m (g/hr)</i>						16.5			13.2			12.8			11.2			8.5			8.5			9.4			
						<i>Emission of second 50m (g/hr)</i>						8.2			6.6			6.4			5.6			4.3			4.2			4.8			
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 17			Hr 18			Hr 19			Hr 20			Hr 21			Hr 22			Hr 23			Hr 24						
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	
NO	7609	North Lantau Tunnel 1 - North Portal	419	832	100%	2829	0.594	291.8	3170	0.617	339.4	3237	0.397	223.2	2459	0.325	138.5	2038	0.309	109.3	1914	0.299	99.3	1886	0.287	94.0	1456	0.281	71.1				
						<i>Emission of first 50m (g/hr)</i>						98.0			114.0			75.0			46.5			36.7			33.4			31.6			
						<i>Emission of second 50m (g/hr)</i>						49.0			57.0			37.5			23.3			18.4			16.7			15.8			
NO2	7609	North Lantau Tunnel 1 - North Portal	419	832	100%	2829	0.147	72.0	3170	0.148	81.5	3237	0.086	48.2	2459	0.069	29.6	2038	0.060	21.3	1914	0.052	17.4	1886	0.048	15.7	1456	0.048	12.2				
						<i>Emission of first 50m (g/hr)</i>						24.2			27.4			16.2			9.9			7.2			5.8			4.1			
						<i>Emission of second 50m (g/hr)</i>						12.1			13.7			8.1			5.0			3.6			2.9			2.6			
NO	1039	North Lantau Tunnel 1 - South Portal	347	681	100%	1534	0.201	130.4	1715	0.184	133.9	1745	0.152	112.4	1324	0.153	86.0	1100	0.168	78.2	1033	0.172	75.4	1015	0.168	72.1	782	0.171	56.5				
						<i>Emission of first 50m (g/hr)</i>						44.3			45.5			38.2			29.2			26.6			25.6			24.5			
						<i>Emission of second 50m (g/hr)</i>						22.2			22.8			19.1			14.6			13.3			12.8			9.6			
NO2	1039	North Lantau Tunnel 1 - South Portal	347	681	100%	1534	0.043	27.9	1715	0.037	27.0	1745	0.028	20.4	1324	0.028	15.6	1100	0.028	13.0	1033	0.026	11.2	1015	0.024	10.1	782	0.025	8.2				
						<i>Emission of first 50m (g/hr)</i>						9.5			9.2			6.9			5.3			4.4			3.8			3.4			
						<i>Emission of second 50m (g/hr)</i>						4.8			4.6			3.5			2.6			2.2			1.9			1.7			

Hourly Emission of North Lantau Tunnel 2 Portal (1st Jan, Short Term, Year 2048)

Pollutant	Flow ID	Road Link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 01			Hr 02			Hr 03			Hr 04			Hr 05			Hr 06			Hr 07			Hr 08			
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)
NO	7610	North Lantau Tunnel 2 - Northeast Portal	500	629	100%	627	0.2092	51.3	425	0.2103	35.0	288	0.2083	23.5	216	0.2148	18.1	246	0.2163	20.8	447	0.2267	39.6	1004	0.2595	101.9	2045	0.299	239.1	
	<i>Emission of first 50m (g/hr)</i>						27.2			18.5			12.4			9.6			11.0			21.0			53.9			126.6		
	<i>Emission of second 50m (g/hr)</i>						13.6			9.3			6.2			4.8			5.5			10.5			27.0			63.3		
NO2	7610	North Lantau Tunnel 2 - Northeast Portal	500	629	100%	627	0.0253	6.2	425	0.0269	4.5	288	0.0272	3.1	216	0.0284	2.4	246	0.0301	2.9	447	0.0347	6.1	1004	0.0428	16.8	2045	0.0534	42.7	
	<i>Emission of first 50m (g/hr)</i>						3.3			2.4			1.6			1.3			1.5			3.2			8.9			22.6		
	<i>Emission of second 50m (g/hr)</i>						1.6			1.2			0.8			0.6			0.8			1.6			4.5			11.3		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 09			Hr 10			Hr 11			Hr 12			Hr 13			Hr 14			Hr 15			Hr 16			
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)
NO	7610	North Lantau Tunnel 2 - Northeast Portal	500	629	100%	2042	0.266	212.7	1611	0.300	188.8	1452	0.324	183.9	1451	0.308	174.8	946	0.340	125.7	976	0.347	132.6	1039	0.357	145.0	1072	0.359	150.5	
	<i>Emission of first 50m (g/hr)</i>						112.6			99.9			97.4			92.5			66.5			70.2			76.7			79.7		
	<i>Emission of second 50m (g/hr)</i>						56.3			50.0			48.7			46.3			33.3			35.1			38.4			39.8		
NO2	7610	North Lantau Tunnel 2 - Northeast Portal	500	629	100%	2042	0.051	40.6	1611	0.059	37.2	1452	0.064	36.1	1451	0.055	31.4	946	0.080	29.7	976	0.076	29.1	1039	0.084	34.2	1072	0.080	33.7	
	<i>Emission of first 50m (g/hr)</i>						21.5			19.7			19.1			16.6			15.7			15.4			18.1			17.8		
	<i>Emission of second 50m (g/hr)</i>						10.7			9.9			9.5			8.3			7.9			7.7			9.0			8.9		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Portal	Hr 17			Hr 18			Hr 19			Hr 20			Hr 21			Hr 22			Hr 23			Hr 24			
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)
NO	7610	North Lantau Tunnel 2 - Northeast Portal	500	629	100%	1139	0.343	153.0	1317	0.314	161.7	1411	0.245	135.4	1080	0.231	97.7	901	0.238	83.8	852	0.241	80.3	842	0.228	75.0	647	0.228	57.8	
	<i>Emission of first 50m (g/hr)</i>						81.0			85.6			71.7			51.7			44.4			42.5			39.7			30.6		
	<i>Emission of second 50m (g/hr)</i>						40.5			42.8			35.8			25.8			22.2			21.3			19.8			15.3		
NO2	7610	North Lantau Tunnel 2 - Northeast Portal	500	629	100%	1139	0.077	34.2	1317	0.067	34.4	1411	0.048	26.4	1080	0.044	18.5	901	0.041	14.3	852	0.036	12.0	842	0.031	10.3	647	0.033	8.4	
	<i>Emission of first 50m (g/hr)</i>						18.1			18.2			14.0			9.8			7.6			6.4			5.5			4.4		
	<i>Emission of second 50m (g/hr)</i>						9.0			9.1			7.0			4.9			3.8			3.2			2.7			2.2		

### **Annex - 3**

#### Emission Calculation for Ventilation Buildings



**Emission Inventory for Tunnel Ventilation Building**

Description	Source ID	Type	X	Y	Base Elevation <sup>[1]</sup>	Exhaust Louver Area <sup>[1]</sup>	Internal Diameter <sup>[2]</sup>	Louver bottom level <sup>[1]</sup>	Release Height <sup>[1]</sup>	Exit Temperature <sup>[1]</sup>	Exit Velocity <sup>[1]</sup>
			(m)	(m)	(m)	(sq. m)	(m)	(mAG)	(mAG)	(K)	(m/s)
Lam Tei Tunnel North Ventilation Building (LTT-NVB)	LTN_VB	POINT	817323	830392	44	360	21.4	24	34.70	Ambient	6
Lam Tei Tunnel South Ventilation Building (LTT-SVB)	LTS_VB	POINT	819428	826895	48	360	21.4	24	34.70	Ambient	6
Tuen Mun Bypass Tunnel North Ventilation Building (concurrent) (TMB-NVB)	TMBN_VB	POINTHOR	817181	830414	35	120	12.4	21	27.20	Ambient	3
So Kwun Wat Link Road East Ventilation Building (SKWLR-EVB)	SKWE_VB	POINT	819351	826895	59	240	17.5	24	32.75	Ambient	6
So Kwun Wat Link Road West Ventilation Building (SKWLR-WVB)	SKWW_VB	POINT	817691	826541	48	240	17.5	24	32.75	Ambient	6
Tai Lam Chung Tunnel (South Section) North Ventilation Building (TLCTS-NVB)	TLCN_VB	POINT	820506	825488	43	460	24.2	24	36.10	Ambient	6
Tai Lam Chung Tunnel (South Section) South Ventilation Building (TLCTS-SVB)	TLCS_VB	POINT	821998	824608	80	460	24.2	24	32.00	Ambient	6

## Note:

1. The modelling parameters including base elevation (=preliminary site formation level + preliminary tunnel height (when applicable)), exhaust louver area, louver bottom level, release height, exit temperature and exit velocity are based on the preliminary information provided by project engineer.
2. Internal diameter is derived from the exhaust louver area provided by project engineer.

Hourly Emission of Lam Tei Tunnel Ventilation Building (1st Jan, Short Term, Year 2033)

Pollutant	Flow ID	Road Link	Tunnel Length (m)	Full Length (m)	Percentage Emittted at Ventilation	Hr 01			Hr 02			Hr 03			Hr 04			Hr 05			Hr 06			Hr 07			Hr 08		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
RSP	1010	LTT	4223	4850	60%	853	0.011	27.6	582	0.011	19.7	398	0.012	13.8	303	0.012	10.6	348	0.012	12.5	643	0.013	24.3	1454	0.013	56.7	2962	0.011	98.6
	1009	LTT	4226	4869	60%	831	0.011	26.4	566	0.011	18.8	388	0.012	13.4	297	0.011	10.3	342	0.012	12.3	626	0.012	23.2	1428	0.013	55.2	2912	0.011	97.8
	<i>Emission at North VB (50% of total emission g/hr)</i>						14.1			10.0			7.1			5.5			6.5			12.4			29.2			51.2	
<i>Emission at South VB (50% of total emission g/hr)</i>						14.1			10.0			7.1			5.5			6.5			12.4			29.2			51.2		
FSP	1010	LTT	4223	4850	60%	853	0.010	25.4	582	0.010	18.2	398	0.011	12.7	303	0.011	9.8	348	0.011	11.5	643	0.012	22.4	1454	0.012	52.2	2962	0.010	90.8
	1009	LTT	4226	4869	60%	831	0.010	24.3	566	0.010	17.3	388	0.011	12.4	297	0.011	9.5	342	0.011	11.3	626	0.011	21.4	1428	0.012	50.8	2912	0.010	90.0
	<i>Emission at North VB (50% of total emission g/hr)</i>						13.0			9.3			6.5			5.0			6.0			11.4			26.9			47.2	
<i>Emission at South VB (50% of total emission g/hr)</i>						13.0			9.3			6.5			5.0			6.0			11.4			26.9			47.2		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emittted at Ventilation	Hr 09			Hr 10			Hr 11			Hr 12			Hr 13			Hr 14			Hr 15			Hr 16		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
RSP	1010	LTT	4223	4850	60%	3008	0.012	106.4	2678	0.015	123.0	2506	0.016	119.7	2421	0.015	107.3	2030	0.015	91.7	2092	0.014	90.1	2253	0.015	101.0	2297	0.014	98.7
	1009	LTT	4226	4869	60%	2958	0.012	105.3	2651	0.015	120.9	2490	0.016	118.9	2400	0.015	106.1	2065	0.016	102.1	2124	0.016	101.0	2317	0.016	113.6	2332	0.016	110.4
	<i>Emission at North VB (50% of total emission g/hr)</i>						55.2			63.6			62.2			55.6			50.5			49.8			56.0			54.5	
<i>Emission at South VB (50% of total emission g/hr)</i>						55.2			63.6			62.2			55.6			50.5			49.8			56.0			54.5		
FSP	1010	LTT	4223	4850	60%	3008	0.011	97.9	2678	0.014	113.1	2506	0.015	110.1	2421	0.014	98.7	2030	0.014	84.4	2092	0.013	82.9	2253	0.014	92.9	2297	0.013	90.8
	1009	LTT	4226	4869	60%	2958	0.011	97.0	2651	0.014	111.2	2490	0.015	109.3	2400	0.013	97.6	2065	0.015	93.9	2124	0.015	92.9	2317	0.015	104.5	2332	0.014	101.6
	<i>Emission at North VB (50% of total emission g/hr)</i>						50.8			58.5			57.2			51.2			46.5			45.8			51.5			50.2	
<i>Emission at South VB (50% of total emission g/hr)</i>						50.8			58.5			57.2			51.2			46.5			45.8			51.5			50.2		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emittted at Ventilation	Hr 17			Hr 18			Hr 19			Hr 20			Hr 21			Hr 22			Hr 23			Hr 24		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
RSP	1010	LTT	4223	4850	60%	2429	0.014	103.6	2740	0.013	105.6	2820	0.010	87.1	2151	0.011	68.0	1785	0.011	56.5	1682	0.010	49.5	1657	0.009	45.6	1278	0.010	36.9
	1009	LTT	4226	4869	60%	2451	0.015	114.1	2699	0.014	114.0	2658	0.011	90.5	2011	0.012	70.2	1660	0.012	58.2	1558	0.011	51.7	1527	0.010	47.7	1184	0.011	38.5
	<i>Emission at North VB (50% of total emission g/hr)</i>						56.8			57.3			46.3			36.1			29.9			26.4			24.3			19.7	
<i>Emission at South VB (50% of total emission g/hr)</i>						56.8			57.3			46.3			36.1			29.9			26.4			24.3			19.7		
FSP	1010	LTT	4223	4850	60%	2429	0.013	95.3	2740	0.012	97.2	2820	0.009	80.3	2151	0.010	62.7	1785	0.010	52.1	1682	0.009	45.6	1657	0.008	42.0	1278	0.009	34.0
	1009	LTT	4226	4869	60%	2451	0.014	105.0	2699	0.013	105.0	2658	0.010	83.3	2011	0.011	64.7	1660	0.011	53.6	1558	0.010	47.6	1527	0.010	43.9	1184	0.010	35.5
	<i>Emission at North VB (50% of total emission g/hr)</i>						52.2			52.7			42.7			33.2			27.6			24.3			22.4			18.1	
<i>Emission at South VB (50% of total emission g/hr)</i>						52.2			52.7			42.7			33.2			27.6			24.3			22.4			18.1		

Hourly Emission of Tuen Mun Bypass North Ventilation Building (1st Jan, Short Term, Year 2033)

Pollutant	Flow ID	Road Link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Ventilation	Hr 01			Hr 02			Hr 03			Hr 04			Hr 05			Hr 06			Hr 07			Hr 08			
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)
RSP	5009	TMB Tunnel (NB)	7453	7532	60%	315	0.013	19.2	216	0.013	13.6	148	0.013	9.2	113	0.013	7.0	132	0.014	8.9	243	0.015	16.7	555	0.015	38.5	1142	0.013	67.9	
	5015	TMB Tunnel (SB)	7470	7600	60%	415	0.012	24.1	285	0.013	17.4	196	0.014	12.6	151	0.014	9.7	175	0.014	11.6	322	0.015	22.2	736	0.015	50.8	1508	0.012	88.7	
	<i>Emission at North VB (33% of total emission g/hr)</i>						8.5			6.1			4.3			3.3			4.0			7.7			17.6			30.9		
	<i>Emission at South VB (33% of total emission g/hr)</i>						8.5			6.1			4.3			3.3			4.0			7.7			17.6			30.9		
FSP	5009	TMB Tunnel (NB)	7453	7532	60%	315	0.012	17.6	216	0.012	12.5	148	0.012	8.5	113	0.012	6.5	132	0.013	8.2	243	0.014	15.3	555	0.014	35.5	1142	0.012	62.5	
	5015	TMB Tunnel (SB)	7470	7600	60%	415	0.011	22.2	285	0.012	16.0	196	0.013	11.6	151	0.013	9.0	175	0.013	10.7	322	0.013	20.4	736	0.014	46.8	1508	0.012	81.6	
	<i>Emission at North VB (33% of total emission g/hr)</i>						7.9			5.6			3.9			3.0			3.7			7.0			16.2			28.4		
	<i>Emission at South VB (33% of total emission g/hr)</i>						7.9			5.6			3.9			3.0			3.7			7.0			16.2			28.4		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Ventilation	Hr 09			Hr 10			Hr 11			Hr 12			Hr 13			Hr 14			Hr 15			Hr 16			
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)
RSP	5009	TMB Tunnel (NB)	7453	7532	60%	1163	0.014	73.7	1094	0.017	88.4	1042	0.018	87.0	994	0.017	78.0	1214	0.019	110.0	1245	0.019	110.5	1401	0.019	125.3	1371	0.019	120.6	
	5015	TMB Tunnel (SB)	7470	7600	60%	1540	0.013	97.4	1443	0.017	116.3	1375	0.018	114.8	1311	0.017	102.5	959	0.019	84.5	981	0.018	84.3	1098	0.018	95.6	1081	0.018	92.2	
	<i>Emission at North VB (33% of total emission g/hr)</i>						33.7			40.4			39.8			35.6			38.4			38.4			43.6			42.0		
	<i>Emission at South VB (33% of total emission g/hr)</i>						33.7			40.4			39.8			35.6			38.4			38.4			43.6			42.0		
FSP	5009	TMB Tunnel (NB)	7453	7532	60%	1163	0.013	67.9	1094	0.016	81.3	1042	0.016	80.0	994	0.015	71.8	1214	0.018	101.1	1245	0.017	101.6	1401	0.018	115.2	1371	0.017	110.9	
	5015	TMB Tunnel (SB)	7470	7600	60%	1540	0.012	89.7	1443	0.016	107.0	1375	0.016	105.6	1311	0.015	94.3	959	0.017	77.7	981	0.017	77.5	1098	0.017	87.9	1081	0.017	84.8	
	<i>Emission at North VB (33% of total emission g/hr)</i>						31.1			37.1			36.6			32.7			35.3			35.3			40.1			38.6		
	<i>Emission at South VB (33% of total emission g/hr)</i>						31.1			37.1			36.6			32.7			35.3			35.3			40.1			38.6		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Ventilation	Hr 17			Hr 18			Hr 19			Hr 20			Hr 21			Hr 22			Hr 23			Hr 24			
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)
RSP	5009	TMB Tunnel (NB)	7453	7532	60%	1417	0.018	120.4	1470	0.017	115.9	1279	0.014	84.7	951	0.015	65.5	766	0.015	53.5	713	0.015	48.5	685	0.014	45.0	541	0.015	36.7	
	5015	TMB Tunnel (SB)	7470	7600	60%	1126	0.017	92.7	1184	0.016	89.6	1068	0.013	66.5	796	0.014	51.5	646	0.014	42.1	603	0.014	38.4	586	0.013	35.9	458	0.013	28.6	
	<i>Emission at North VB (33% of total emission g/hr)</i>						42.1			40.5			29.8			23.1			18.9			17.1			15.9			12.9		
	<i>Emission at South VB (33% of total emission g/hr)</i>						42.1			40.5			29.8			23.1			18.9			17.1			15.9			12.9		
FSP	5009	TMB Tunnel (NB)	7453	7532	60%	1417	0.017	110.8	1470	0.016	106.6	1279	0.013	77.9	951	0.014	60.2	766	0.014	49.3	713	0.013	44.6	685	0.013	41.4	541	0.013	33.8	
	5015	TMB Tunnel (SB)	7470	7600	60%	1126	0.016	85.3	1184	0.015	82.4	1068	0.012	61.2	796	0.013	47.4	646	0.013	38.8	603	0.012	35.3	586	0.012	33.0	458	0.012	26.4	
	<i>Emission at North VB (33% of total emission g/hr)</i>						38.7			37.3			27.5			21.2			17.4			15.8			14.7			11.9		
	<i>Emission at South VB (33% of total emission g/hr)</i>						38.7			37.3			27.5			21.2			17.4			15.8			14.7			11.9		

Hourly Emission of So Kwun Wat Link Road Ventilation Building (1st Jan, Short Term, Year 2033)

Pollutant	Flow ID	Road Link	Tunnel Length (m)	Full Length (m)	Percentage Emittted at Ventilation	Hr 01			Hr 02			Hr 03			Hr 04			Hr 05			Hr 06			Hr 07			Hr 08		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
RSP	1011	SKWLR	2020	2622	60%	514	0.006	5.2	347	0.007	3.9	235	0.007	2.6	177	0.008	2.2	201	0.008	2.5	368	0.008	4.9	825	0.008	11.3	1679	0.008	21.4
	1012	SKWLR	1973	2514	60%	41	0.023	1.5	28	0.026	1.1	17	0.021	0.5	13	0.026	0.5	14	0.025	0.5	29	0.027	1.2	65	0.026	2.6	128	0.015	2.9
	<i>Emission at North VB (50% of total emission g/hr)</i>						1.6			1.2			0.7			0.6			0.7			1.4			3.2			5.6	
<i>Emission at South VB (50% of total emission g/hr)</i>						1.6			1.2			0.7			0.6			0.7			1.4			3.2			5.6		
FSP	1011	SKWLR	2020	2622	60%	514	0.006	4.8	347	0.006	3.6	235	0.006	2.4	177	0.007	2.0	201	0.007	2.3	368	0.008	4.6	825	0.008	10.4	1679	0.007	19.7
	1012	SKWLR	1973	2514	60%	41	0.021	1.4	28	0.024	1.0	17	0.019	0.5	13	0.024	0.5	14	0.023	0.5	29	0.025	1.1	65	0.024	2.4	128	0.013	2.7
	<i>Emission at North VB (50% of total emission g/hr)</i>						1.4			1.1			0.7			0.6			0.6			1.3			3.0			5.2	
<i>Emission at South VB (50% of total emission g/hr)</i>						1.4			1.1			0.7			0.6			0.6			1.3			3.0			5.2		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emittted at Ventilation	Hr 09			Hr 10			Hr 11			Hr 12			Hr 13			Hr 14			Hr 15			Hr 16		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
RSP	1011	SKWLR	2020	2622	60%	1680	0.008	21.6	1338	0.010	21.3	1209	0.010	20.4	1204	0.009	18.0	209	0.026	8.9	212	0.026	8.9	244	0.025	10.0	232	0.025	9.5
	1012	SKWLR	1973	2514	60%	128	0.018	3.5	104	0.029	4.8	91	0.029	4.2	93	0.027	3.9	184	0.023	6.5	186	0.022	6.4	211	0.022	7.2	204	0.022	6.9
	<i>Emission at North VB (50% of total emission g/hr)</i>						5.8			6.1			5.7			5.1			3.6			3.6			4.0			3.8	
<i>Emission at South VB (50% of total emission g/hr)</i>						5.8			6.1			5.7			5.1			3.6			3.6			4.0			3.8		
FSP	1011	SKWLR	2020	2622	60%	1680	0.007	19.9	1338	0.009	19.6	1209	0.010	18.8	1204	0.009	16.6	209	0.024	8.2	212	0.024	8.2	244	0.023	9.2	232	0.023	8.8
	1012	SKWLR	1973	2514	60%	128	0.016	3.2	104	0.027	4.4	91	0.027	3.8	93	0.025	3.6	184	0.021	6.0	186	0.020	5.9	211	0.020	6.6	204	0.020	6.3
	<i>Emission at North VB (50% of total emission g/hr)</i>						5.4			5.6			5.2			4.7			3.3			3.3			3.7			3.5	
<i>Emission at South VB (50% of total emission g/hr)</i>						5.4			5.6			5.2			4.7			3.3			3.3			3.7			3.5		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emittted at Ventilation	Hr 17			Hr 18			Hr 19			Hr 20			Hr 21			Hr 22			Hr 23			Hr 24		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
RSP	1011	SKWLR	2020	2622	60%	238	0.025	9.5	232	0.025	9.6	172	0.025	7.1	124	0.027	5.5	97	0.030	4.7	91	0.031	4.6	82	0.031	4.1	66	0.030	3.2
	1012	SKWLR	1973	2514	60%	214	0.021	7.1	229	0.021	7.5	207	0.018	5.9	156	0.019	4.7	127	0.021	4.1	121	0.021	3.9	115	0.020	3.5	91	0.020	2.8
	<i>Emission at North VB (50% of total emission g/hr)</i>						3.9			4.0			3.0			2.4			2.1			2.0			1.8			1.4	
<i>Emission at South VB (50% of total emission g/hr)</i>						3.9			4.0			3.0			2.4			2.1			2.0			1.8			1.4		
FSP	1011	SKWLR	2020	2622	60%	238	0.023	8.8	232	0.023	8.8	172	0.023	6.5	124	0.025	5.0	97	0.028	4.4	91	0.028	4.2	82	0.028	3.7	66	0.028	3.0
	1012	SKWLR	1973	2514	60%	214	0.020	6.6	229	0.019	6.9	207	0.017	5.5	156	0.018	4.3	127	0.019	3.8	121	0.019	3.6	115	0.018	3.3	91	0.018	2.6
	<i>Emission at North VB (50% of total emission g/hr)</i>						3.6			3.7			2.8			2.2			1.9			1.8			1.6			1.3	
<i>Emission at South VB (50% of total emission g/hr)</i>						3.6			3.7			2.8			2.2			1.9			1.8			1.6			1.3		



Hourly Emission of Tai Lam Chung Tunnel (South Section) Ventilation Building (1st Jan, Short Term, Year 2033)

Pollutant	Flow ID	Road Link	Tunnel Length (m)	Full Length (m)	Percentage Emittted at Ventilation	Hr 01			Hr 02			Hr 03			Hr 04			Hr 05			Hr 06			Hr 07			Hr 08		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
RSP	1016	TLCTS	1699	3126	60%	890	0.011	18.7	605	0.011	13.2	416	0.012	9.4	316	0.012	7.3	362	0.012	8.5	669	0.013	16.5	1517	0.013	38.3	3083	0.011	65.9
	1017	TLCTS	1200	2448	60%	1347	0.009	18.1	915	0.009	12.9	621	0.010	9.0	473	0.010	7.2	545	0.010	8.6	997	0.011	16.3	2251	0.011	38.0	4588	0.010	68.9
	1019	TLCTS	620	792	60%	419	0.009	1.9	286	0.010	1.4	198	0.010	1.0	152	0.011	0.8	174	0.011	0.9	323	0.012	1.9	737	0.013	4.8	1530	0.015	11.3
	1020	TLCTS	629	629	60%	926	0.009	3.4	626	0.010	2.4	427	0.010	1.7	321	0.010	1.3	369	0.011	1.6	670	0.011	2.9	1512	0.012	6.8	3057	0.009	11.3
	<i>Emission at North VB (50% of total emission g/hr)</i>						7.2			5.1			3.6			2.8			3.3			6.4			15.0			26.9	
<i>Emission at South VB (50% of total emission g/hr)</i>						7.2			5.1			3.6			2.8			3.3			6.4			15.0			26.9		
FSP	1016	TLCTS	1699	3126	60%	890	0.010	17.2	605	0.010	12.1	416	0.011	8.6	316	0.011	6.7	362	0.011	7.9	669	0.012	15.2	1517	0.012	35.2	3083	0.010	60.6
	1017	TLCTS	1200	2448	60%	1347	0.008	16.7	915	0.009	11.9	621	0.009	8.3	473	0.009	6.6	545	0.010	7.9	997	0.010	15.0	2251	0.010	35.0	4588	0.009	63.4
	1019	TLCTS	620	792	60%	419	0.009	1.8	286	0.009	1.2	198	0.009	0.9	152	0.010	0.7	174	0.010	0.9	323	0.011	1.7	737	0.012	4.4	1530	0.014	10.4
	1020	TLCTS	629	629	60%	926	0.009	3.1	626	0.009	2.2	427	0.009	1.6	321	0.010	1.2	369	0.010	1.4	670	0.010	2.7	1512	0.011	6.2	3057	0.009	10.4
	<i>Emission at North VB (50% of total emission g/hr)</i>						6.6			4.7			3.3			2.6			3.1			5.9			13.8			24.8	
<i>Emission at South VB (50% of total emission g/hr)</i>						6.6			4.7			3.3			2.6			3.1			5.9			13.8			24.8		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emittted at Ventilation	Hr 09			Hr 10			Hr 11			Hr 12			Hr 13			Hr 14			Hr 15			Hr 16		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
RSP	1016	TLCTS	1699	3126	60%	3126	0.012	71.2	2771	0.015	82.5	2593	0.016	80.4	2507	0.015	71.7	2209	0.015	65.5	2274	0.015	64.4	2455	0.015	72.3	2498	0.015	70.7
	1017	TLCTS	1200	2448	60%	4637	0.010	72.9	3989	0.013	80.6	3699	0.014	78.6	3603	0.013	69.9	2266	0.017	58.3	2330	0.016	57.8	2554	0.017	65.0	2560	0.016	63.3
	1019	TLCTS	620	792	60%	1555	0.015	11.8	1428	0.018	12.8	1360	0.019	12.7	1300	0.018	11.3	1251	0.015	8.9	1294	0.014	8.6	1367	0.015	9.8	1425	0.014	9.9
	1020	TLCTS	629	629	60%	3081	0.010	12.1	2560	0.014	13.5	2339	0.014	12.8	2305	0.013	11.5	1015	0.025	9.8	1038	0.024	9.9	1188	0.024	11.1	1137	0.024	10.7
	<i>Emission at North VB (50% of total emission g/hr)</i>						28.8			32.3			31.5			28.1			24.3			24.0			27.0			26.4	
<i>Emission at South VB (50% of total emission g/hr)</i>						28.8			32.3			31.5			28.1			24.3			24.0			27.0			26.4		
FSP	1016	TLCTS	1699	3126	60%	3126	0.011	65.6	2771	0.014	75.9	2593	0.015	74.0	2507	0.014	66.0	2209	0.014	60.3	2274	0.013	59.3	2455	0.014	66.5	2498	0.013	65.0
	1017	TLCTS	1200	2448	60%	4637	0.010	67.2	3989	0.012	74.2	3699	0.013	72.4	3603	0.012	64.3	2266	0.016	53.6	2330	0.015	53.2	2554	0.015	59.8	2560	0.015	58.2
	1019	TLCTS	620	792	60%	1555	0.014	10.9	1428	0.017	11.8	1360	0.018	11.7	1300	0.016	10.4	1251	0.013	8.2	1294	0.013	7.9	1367	0.013	9.0	1425	0.013	9.1
	1020	TLCTS	629	629	60%	3081	0.009	11.2	2560	0.012	12.4	2339	0.013	11.8	2305	0.012	10.6	1015	0.023	9.0	1038	0.023	9.1	1188	0.022	10.2	1137	0.022	9.8
	<i>Emission at North VB (50% of total emission g/hr)</i>						26.5			29.8			29.0			25.8			22.4			22.1			24.8			24.2	
<i>Emission at South VB (50% of total emission g/hr)</i>						26.5			29.8			29.0			25.8			22.4			22.1			24.8			24.2		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emittted at Ventilation	Hr 17			Hr 18			Hr 19			Hr 20			Hr 21			Hr 22			Hr 23			Hr 24		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
RSP	1016	TLCTS	1699	3126	60%	2638	0.014	73.8	2959	0.013	74.9	3019	0.010	61.1	2300	0.011	47.7	1907	0.011	39.7	1794	0.010	34.8	1767	0.009	32.2	1364	0.010	25.8
	1017	TLCTS	1200	2448	60%	2685	0.016	64.9	2920	0.015	64.2	2821	0.012	50.1	2129	0.012	38.9	1751	0.012	32.2	1643	0.012	28.8	1603	0.011	26.5	1245	0.011	21.4
	1019	TLCTS	620	792	60%	1515	0.014	10.5	1758	0.013	10.9	1918	0.010	9.7	1470	0.010	7.0	1229	0.009	5.3	1157	0.008	4.3	1149	0.007	3.9	881	0.007	3.1
	1020	TLCTS	629	629	60%	1167	0.024	10.7	1161	0.023	10.6	903	0.022	7.8	660	0.024	6.2	521	0.026	5.3	484	0.026	5.0	453	0.026	4.7	364	0.026	3.7
	<i>Emission at North VB (50% of total emission g/hr)</i>						27.3			27.4			21.9			17.0			14.0			12.4			11.5			9.2	
<i>Emission at South VB (50% of total emission g/hr)</i>						27.3			27.4			21.9			17.0			14.0			12.4			11.5			9.2		
FSP	1016	TLCTS	1699	3126	60%	2638	0.013	67.9	2959	0.012	69.0	3019	0.010	56.3	2300	0.010	44.0	1907	0.010	36.6	1794	0.009	32.1	1767	0.009	29.6	1364	0.009	23.8
	1017	TLCTS	1200	2448	60%	2685	0.015	59.7	2920	0.013	59.1	2821	0.011	46.1	2129	0.011	35.8	1751	0.011	29.7	1643	0.011	26.5	1603	0.010	24.4	1245	0.010	19.7
	1019	TLCTS	620	792	60%	1515	0.013	9.7	1758	0.012	10.0	1918	0.010	9.0	1470	0.009	6.4	1229	0.008	4.9	1157	0.007	3.9	1149	0.006	3.6	881	0.007	2.8
	1020	TLCTS	629	629	60%	1167	0.022	9.9	1161	0.022	9.7	903	0.020	7.1	660	0.022	5.7	521	0.024	4.8	484	0.024	4.6	453	0.024	4.3	364	0.024	3.4
	<i>Emission at North VB (50% of total emission g/hr)</i>						25.1			25.2			20.2			15.7			12.9			11.4			10.6			8.5	
<i>Emission at South VB (50% of total emission g/hr)</i>						25.1			25.2			20.2			15.7			12.9			11.4			10.6			8.5		

Hourly Emission of Lam Tei Tunnel Ventilation Building (1st Jan, Long Term, Year 2048)

Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emittted at Ventilation	Hr 01			Hr 02			Hr 03			Hr 04			Hr 05			Hr 06			Hr 07			Hr 08			
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)
NO	1010	LTT	4223	4850	60%	971	0.149	435.0	663	0.153	305.9	455	0.155	213.1	347	0.157	163.6	400	0.159	192.0	738	0.163	362.1	1678	0.168	847.7	3434	0.167	1725.7	
	1009	LTT	4226	4869	60%	1217	0.141	518.7	827	0.145	363.7	566	0.148	253.2	429	0.149	193.7	495	0.152	227.7	908	0.155	425.6	2056	0.160	995.8	4205	0.164	2081.6	
	<i>Emission at North VB (50% of total emission g/hr)</i>						248.7			174.6			121.6			93.2			109.4			205.4			480.7			992.7		
	<i>Emission at South VB (50% of total emission g/hr)</i>						248.7			174.6			121.6			93.2			109.4			205.4			480.7			992.7		
NO2	1010	LTT	4223	4850	60%	971	0.026	76.4	663	0.028	55.2	455	0.029	39.8	347	0.030	31.1	400	0.031	37.3	738	0.033	72.5	1678	0.034	173.1	3434	0.033	339.2	
	1009	LTT	4226	4869	60%	1217	0.022	81.0	827	0.023	58.5	566	0.025	42.7	429	0.026	33.4	495	0.027	40.6	908	0.029	78.2	2056	0.030	187.6	4205	0.030	378.1	
	<i>Emission at North VB (50% of total emission g/hr)</i>						41.0			29.7			21.5			16.8			20.3			39.3			94.1			187.0		
	<i>Emission at South VB (50% of total emission g/hr)</i>						41.0			29.7			21.5			16.8			20.3			39.3			94.1			187.0		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emittted at Ventilation	Hr 09			Hr 10			Hr 11			Hr 12			Hr 13			Hr 14			Hr 15			Hr 16			
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)
NO	1010	LTT	4223	4850	60%	3493	0.154	1624.4	3162	0.181	1720.0	2983	0.189	1701.0	2865	0.179	1546.2	2998	0.161	1452.1	3095	0.164	1534.1	3294	0.160	1590.2	3400	0.167	1709.0	
	1009	LTT	4226	4869	60%	4256	0.151	1944.4	3716	0.174	1952.6	3468	0.184	1926.0	3365	0.173	1759.2	2793	0.181	1533.5	2875	0.183	1593.1	3145	0.183	1743.3	3161	0.187	1787.9	
	<i>Emission at North VB (50% of total emission g/hr)</i>						930.6			957.7			945.8			861.9			778.6			815.5			869.3			911.9		
	<i>Emission at South VB (50% of total emission g/hr)</i>						930.6			957.7			945.8			861.9			778.6			815.5			869.3			911.9		
NO2	1010	LTT	4223	4850	60%	3493	0.033	349.9	3162	0.042	402.5	2983	0.045	405.4	2865	0.041	355.1	2998	0.036	328.2	3095	0.034	319.5	3294	0.036	358.0	3400	0.035	357.9	
	1009	LTT	4226	4869	60%	4256	0.030	384.6	3716	0.038	424.4	3468	0.041	428.0	3365	0.037	373.1	2793	0.046	389.3	2875	0.044	385.5	3145	0.046	436.6	3161	0.045	429.2	
	<i>Emission at North VB (50% of total emission g/hr)</i>						191.5			215.6			217.3			189.9			187.1			183.8			207.2			205.2		
	<i>Emission at South VB (50% of total emission g/hr)</i>						191.5			215.6			217.3			189.9			187.1			183.8			207.2			205.2		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emittted at Ventilation	Hr 17			Hr 18			Hr 19			Hr 20			Hr 21			Hr 22			Hr 23			Hr 24			
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)
NO	1010	LTT	4223	4850	60%	3613	0.162	1763.8	4163	0.150	1877.4	4449	0.122	1637.0	3411	0.119	1221.6	2844	0.130	1109.9	2681	0.132	1067.2	2655	0.132	1058.8	2038	0.134	823.9	
	1009	LTT	4226	4869	60%	3314	0.183	1839.6	3631	0.170	1867.7	3550	0.137	1473.7	2682	0.132	1073.5	2208	0.142	951.3	2072	0.145	906.6	2027	0.144	883.8	1573	0.146	696.6	
	<i>Emission at North VB (50% of total emission g/hr)</i>						939.7			976.7			811.3			598.6			537.6			514.8			506.7			396.6		
	<i>Emission at South VB (50% of total emission g/hr)</i>						939.7			976.7			811.3			598.6			537.6			514.8			506.7			396.6		
NO2	1010	LTT	4223	4850	60%	3613	0.034	373.1	4163	0.030	371.0	4449	0.022	292.6	3411	0.021	219.6	2844	0.021	181.7	2681	0.019	152.0	2655	0.017	138.9	2038	0.019	113.7	
	1009	LTT	4226	4869	60%	3314	0.043	431.0	3631	0.037	411.1	3550	0.028	297.9	2682	0.027	222.8	2208	0.027	182.9	2072	0.026	159.9	2027	0.024	147.9	1573	0.026	121.6	
	<i>Emission at North VB (50% of total emission g/hr)</i>						209.7			203.9			154.0			115.4			95.1			81.3			74.8			61.3		
	<i>Emission at South VB (50% of total emission g/hr)</i>						209.7			203.9			154.0			115.4			95.1			81.3			74.8			61.3		

Hourly Emission of Tuen Mun Bypass North Ventilation Building (1st Jan, Long Term, Year 2048)

Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Ventilation	Hr 01			Hr 02			Hr 03			Hr 04			Hr 05			Hr 06			Hr 07			Hr 08		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	5009	TMB Tunnel (NB)	7453	7532	60%	496	0.156	362.4	339	0.160	254.3	234	0.161	176.9	181	0.164	139.2	213	0.168	167.4	392	0.171	312.9	894	0.175	732.0	1852	0.170	1476.1
	5015	TMB Tunnel (SB)	7470	7600	60%	676	0.147	468.0	460	0.151	327.1	317	0.153	229.4	241	0.156	177.0	280	0.159	210.2	515	0.161	392.1	1169	0.166	915.0	2399	0.161	1822.4
	<i>Emission at North VB (33% of total emission g/hr)</i>						163.7			114.6			80.1			62.3			74.4			139.0			324.7			650.3	
<i>Emission at South VB (33% of total emission g/hr)</i>						163.7			114.6			80.1			62.3			74.4			139.0			324.7			650.3		
NO2	5009	TMB Tunnel (NB)	7453	7532	60%	496	0.031	71.3	339	0.032	50.5	234	0.033	35.6	181	0.034	28.8	213	0.036	36.1	392	0.037	67.9	894	0.039	161.4	1852	0.037	322.3
	5015	TMB Tunnel (SB)	7470	7600	60%	676	0.025	80.1	460	0.026	57.2	317	0.028	41.8	241	0.029	33.0	280	0.031	41.4	515	0.032	77.4	1169	0.033	184.4	2399	0.032	362.1
	<i>Emission at North VB (33% of total emission g/hr)</i>						29.8			21.2			15.3			12.2			15.3			28.7			68.2			135.0	
<i>Emission at South VB (33% of total emission g/hr)</i>						29.8			21.2			15.3			12.2			15.3			28.7			68.2			135.0		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Ventilation	Hr 09			Hr 10			Hr 11			Hr 12			Hr 13			Hr 14			Hr 15			Hr 16		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	5009	TMB Tunnel (NB)	7453	7532	60%	1896	0.160	1420.9	1831	0.183	1570.3	1761	0.191	1576.0	1668	0.185	1441.4	2129	0.187	1859.6	2187	0.188	1920.6	2441	0.186	2121.8	2406	0.188	2111.9
	5015	TMB Tunnel (SB)	7470	7600	60%	2440	0.148	1707.2	2212	0.172	1797.8	2088	0.182	1793.3	2008	0.174	1650.0	1431	0.189	1274.5	1468	0.190	1313.9	1639	0.186	1441.3	1613	0.189	1442.4
	<i>Emission at North VB (33% of total emission g/hr)</i>						616.8			664.2			664.4			609.6			618.5			638.3			703.2			701.5	
<i>Emission at South VB (33% of total emission g/hr)</i>						616.8			664.2			664.4			609.6			618.5			638.3			703.2			701.5		
NO2	5009	TMB Tunnel (NB)	7453	7532	60%	1896	0.038	336.7	1831	0.047	400.7	1761	0.050	409.2	1668	0.046	361.3	2129	0.051	508.9	2187	0.050	507.8	2441	0.050	575.2	2406	0.050	558.5
	5015	TMB Tunnel (SB)	7470	7600	60%	2440	0.032	372.8	2212	0.041	427.2	2088	0.044	434.0	2008	0.040	381.6	1431	0.052	351.3	1468	0.051	350.4	1639	0.051	395.4	1613	0.051	384.9
	<i>Emission at North VB (33% of total emission g/hr)</i>						139.9			163.3			166.3			146.5			169.8			169.4			191.5			186.2	
<i>Emission at South VB (33% of total emission g/hr)</i>						139.9			163.3			166.3			146.5			169.8			169.4			191.5			186.2		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Ventilation	Hr 17			Hr 18			Hr 19			Hr 20			Hr 21			Hr 22			Hr 23			Hr 24		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	5009	TMB Tunnel (NB)	7453	7532	60%	2500	0.184	2153.0	2639	0.171	2114.0	2396	0.143	1606.8	1786	0.143	1195.9	1452	0.151	1026.0	1353	0.152	965.5	1312	0.152	932.6	1026	0.154	741.1
	5015	TMB Tunnel (SB)	7470	7600	60%	1678	0.185	1462.5	1764	0.172	1433.3	1590	0.145	1091.7	1186	0.146	815.8	964	0.154	698.8	898	0.155	658.9	869	0.155	635.0	680	0.156	502.3
	<i>Emission at North VB (33% of total emission g/hr)</i>						713.6			700.1			532.6			397.0			340.4			320.6			309.4			245.4	
<i>Emission at South VB (33% of total emission g/hr)</i>						713.6			700.1			532.6			397.0			340.4			320.6			309.4			245.4		
NO2	5009	TMB Tunnel (NB)	7453	7532	60%	2500	0.047	547.8	2639	0.041	505.8	2396	0.031	349.6	1786	0.032	264.8	1452	0.032	214.4	1353	0.030	190.1	1312	0.029	178.2	1026	0.030	145.9
	5015	TMB Tunnel (SB)	7470	7600	60%	1678	0.048	376.8	1764	0.042	348.3	1590	0.032	240.7	1186	0.033	183.4	964	0.033	149.0	898	0.031	133.4	869	0.030	124.9	680	0.032	101.1
	<i>Emission at North VB (33% of total emission g/hr)</i>						182.5			168.6			116.5			88.4			71.7			63.8			59.8			48.7	
<i>Emission at South VB (33% of total emission g/hr)</i>						182.5			168.6			116.5			88.4			71.7			63.8			59.8			48.7		

Hourly Emission of So Kwun Wat Link Road Ventilation Building (1st Jan, Long Term, Year 2048)

Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Ventilation	Hr 01			Hr 02			Hr 03			Hr 04			Hr 05			Hr 06			Hr 07			Hr 08		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	1011	SKWLR	2020	2622	60%	570	0.133	123.1	387	0.138	87.2	263	0.138	59.3	199	0.143	46.3	227	0.144	53.1	419	0.148	101.0	945	0.152	233.9	1930	0.150	471.6
	1012	SKWLR	1973	2514	60%	64	0.166	16.6	43	0.175	11.8	28	0.160	7.0	21	0.168	5.5	24	0.170	6.4	45	0.182	12.8	105	0.183	30.0	202	0.157	49.6
	<i>Emission at North VB (50% of total emission g/hr)</i>						32.4			22.9			15.4			12.0			13.8			26.4			61.1			120.7	
<i>Emission at South VB (50% of total emission g/hr)</i>						32.4			22.9			15.4			12.0			13.8			26.4			61.1			120.7		
NO2	1011	SKWLR	2020	2622	60%	570	0.018	16.4	387	0.019	12.2	263	0.020	8.5	199	0.022	7.3	227	0.022	8.1	419	0.025	16.9	945	0.026	39.8	1930	0.026	80.7
	1012	SKWLR	1973	2514	60%	64	0.033	3.3	43	0.037	2.5	28	0.028	1.2	21	0.030	1.0	24	0.033	1.2	45	0.042	2.9	105	0.039	6.5	202	0.029	9.1
	<i>Emission at North VB (50% of total emission g/hr)</i>						4.6			3.4			2.3			1.9			2.2			4.6			10.7			20.8	
<i>Emission at South VB (50% of total emission g/hr)</i>						4.6			3.4			2.3			1.9			2.2			4.6			10.7			20.8		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Ventilation	Hr 09			Hr 10			Hr 11			Hr 12			Hr 13			Hr 14			Hr 15			Hr 16		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	1011	SKWLR	2020	2622	60%	1940	0.133	419.4	1627	0.154	406.8	1498	0.165	402.5	1471	0.156	374.7	219	0.202	71.9	222	0.201	72.6	248	0.196	79.3	245	0.200	79.8
	1012	SKWLR	1973	2514	60%	204	0.145	46.1	166	0.183	47.5	149	0.193	44.8	147	0.182	41.8	308	0.207	99.8	314	0.208	101.8	357	0.204	113.6	343	0.206	110.2
	<i>Emission at North VB (50% of total emission g/hr)</i>						107.8			105.2			103.6			96.5			40.1			40.7			45.1			44.4	
<i>Emission at South VB (50% of total emission g/hr)</i>						107.8			105.2			103.6			96.5			40.1			40.7			45.1			44.4		
NO2	1011	SKWLR	2020	2622	60%	1940	0.025	78.6	1627	0.031	83.2	1498	0.034	83.7	1471	0.031	73.2	219	0.058	20.7	222	0.055	20.0	248	0.056	22.4	245	0.055	22.1
	1012	SKWLR	1973	2514	60%	204	0.031	9.9	166	0.045	11.7	149	0.047	10.9	147	0.042	9.6	308	0.061	29.5	314	0.060	29.4	357	0.059	33.1	343	0.059	31.7
	<i>Emission at North VB (50% of total emission g/hr)</i>						20.5			22.0			21.9			19.2			11.7			11.6			13.0			12.6	
<i>Emission at South VB (50% of total emission g/hr)</i>						20.5			22.0			21.9			19.2			11.7			11.6			13.0			12.6		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Ventilation	Hr 17			Hr 18			Hr 19			Hr 20			Hr 21			Hr 22			Hr 23			Hr 24		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	1011	SKWLR	2020	2622	60%	254	0.196	81.0	271	0.187	82.4	247	0.162	65.1	184	0.162	48.4	152	0.176	43.6	143	0.179	41.6	137	0.175	39.1	107	0.179	31.1
	1012	SKWLR	1973	2514	60%	354	0.203	112.0	362	0.195	110.2	304	0.174	82.7	221	0.174	60.1	180	0.184	51.7	169	0.187	49.4	158	0.184	45.5	127	0.187	37.0
	<i>Emission at North VB (50% of total emission g/hr)</i>						45.1			45.0			34.5			25.3			22.3			21.3			19.8			15.9	
<i>Emission at South VB (50% of total emission g/hr)</i>						45.1			45.0			34.5			25.3			22.3			21.3			19.8			15.9		
NO2	1011	SKWLR	2020	2622	60%	254	0.053	21.9	271	0.049	21.5	247	0.040	16.1	184	0.041	12.1	152	0.044	10.8	143	0.043	9.9	137	0.040	9.0	107	0.041	7.1
	1012	SKWLR	1973	2514	60%	354	0.056	31.0	362	0.052	29.4	304	0.044	20.7	221	0.045	15.6	180	0.047	13.3	169	0.048	12.6	158	0.046	11.3	127	0.047	9.3
	<i>Emission at North VB (50% of total emission g/hr)</i>						12.4			11.9			8.6			6.5			5.6			5.3			4.7			3.8	
<i>Emission at South VB (50% of total emission g/hr)</i>						12.4			11.9			8.6			6.5			5.6			5.3			4.7			3.8		



Hourly Emission of Tai Lam Chung Tunnel (South Section) Ventilation Building (1st Jan, Long Term, Year 2048)

Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Ventilation	Hr 01			Hr 02			Hr 03			Hr 04			Hr 05			Hr 06			Hr 07			Hr 08		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	1016	TLCTS	1699	3126	60%	1034	0.148	297.4	705	0.153	208.9	483	0.155	145.3	369	0.158	112.9	427	0.159	132.2	782	0.162	246.6	1778	0.167	577.0	3631	0.161	1136.9
	1017	TLCTS	1200	2448	60%	1786	0.138	375.7	1213	0.143	263.3	832	0.145	183.7	629	0.147	140.8	726	0.150	165.6	1328	0.153	308.4	3001	0.157	718.2	6134	0.187	1744.9
	1019	TLCTS	620	792	60%	345	0.250	42.5	238	0.253	29.6	167	0.253	20.8	129	0.261	16.5	150	0.264	19.5	285	0.287	40.2	656	0.332	107.0	1383	0.409	278.0
	1020	TLCTS	629	629	60%	1444	0.134	75.8	973	0.139	52.7	662	0.141	36.4	500	0.142	27.8	572	0.145	32.3	1046	0.148	60.5	2343	0.152	139.3	4754	0.151	281.4
	<i>Emission at North VB (50% of total emission g/hr)</i>						136.5			95.5			66.5			51.4			60.2			113.1			266.7			591.7	
<i>Emission at South VB (50% of total emission g/hr)</i>						136.5			95.5			66.5			51.4			60.2			113.1			266.7			591.7		
NO2	1016	TLCTS	1699	3126	60%	1034	0.026	51.8	705	0.027	37.4	483	0.028	26.6	369	0.030	21.5	427	0.031	25.9	782	0.032	49.1	1778	0.034	117.0	3631	0.032	224.1
	1017	TLCTS	1200	2448	60%	1786	0.021	55.9	1213	0.022	40.4	832	0.023	29.7	629	0.025	23.5	726	0.026	28.5	1328	0.027	55.0	3001	0.029	131.0	6134	0.035	324.0
	1019	TLCTS	620	792	60%	345	0.054	9.1	238	0.055	6.5	167	0.056	4.6	129	0.059	3.7	150	0.059	4.4	285	0.067	9.4	656	0.080	25.8	1383	0.103	69.9
	1020	TLCTS	629	629	60%	1444	0.018	10.3	973	0.019	7.3	662	0.021	5.3	500	0.022	4.3	572	0.023	5.1	1046	0.024	10.0	2343	0.026	23.4	4754	0.025	45.6
	<i>Emission at North VB (50% of total emission g/hr)</i>						21.9			15.8			11.4			9.1			11.0			21.3			51.4			114.3	
<i>Emission at South VB (50% of total emission g/hr)</i>						21.9			15.8			11.4			9.1			11.0			21.3			51.4			114.3		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Ventilation	Hr 09			Hr 10			Hr 11			Hr 12			Hr 13			Hr 14			Hr 15			Hr 16		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	1016	TLCTS	1699	3126	60%	3690	0.149	1069.3	3320	0.174	1119.8	3123	0.183	1111.3	3006	0.174	1018.1	3296	0.162	1038.3	3402	0.165	1090.3	3640	0.161	1135.4	3738	0.167	1212.1
	1017	TLCTS	1200	2448	60%	6194	0.182	1713.7	5341	0.173	1409.4	4969	0.181	1371.0	4834	0.171	1259.9	3005	0.177	809.1	3092	0.180	845.4	3385	0.178	914.9	3398	0.182	939.7
	1019	TLCTS	620	792	60%	1423	0.416	290.8	1448	0.499	355.3	1422	0.520	364.0	1327	0.483	315.1	1254	0.317	195.6	1297	0.319	203.3	1380	0.330	224.2	1427	0.331	232.5
	1020	TLCTS	629	629	60%	4773	0.134	250.8	3893	0.155	236.1	3546	0.166	229.4	3508	0.156	213.7	1750	0.195	133.5	1797	0.196	137.5	2010	0.192	151.1	1973	0.195	150.5
	<i>Emission at North VB (50% of total emission g/hr)</i>						570.0			544.2			537.2			489.5			374.3			391.2			417.7			435.7	
<i>Emission at South VB (50% of total emission g/hr)</i>						570.0			544.2			537.2			489.5			374.3			391.2			417.7			435.7		
NO2	1016	TLCTS	1699	3126	60%	3690	0.032	231.8	3320	0.041	266.0	3123	0.044	267.7	3006	0.040	235.0	3296	0.038	243.4	3402	0.036	237.8	3640	0.038	266.3	3738	0.037	266.0
	1017	TLCTS	1200	2448	60%	6194	0.037	352.6	5341	0.036	295.2	4969	0.039	296.1	4834	0.035	258.3	3005	0.046	210.3	3092	0.044	208.7	3385	0.046	235.3	3398	0.045	231.1
	1019	TLCTS	620	792	60%	1423	0.109	76.5	1448	0.135	96.4	1422	0.144	101.0	1327	0.130	84.9	1254	0.078	48.0	1297	0.074	47.1	1380	0.082	55.4	1427	0.078	54.9
	1020	TLCTS	629	629	60%	4773	0.024	44.8	3893	0.031	46.5	3546	0.033	45.7	3508	0.029	40.0	1750	0.055	37.7	1797	0.054	37.7	2010	0.054	42.4	1973	0.053	41.2
	<i>Emission at North VB (50% of total emission g/hr)</i>						121.1			123.4			124.6			108.2			93.2			91.9			103.8			102.6	
<i>Emission at South VB (50% of total emission g/hr)</i>						121.1			123.4			124.6			108.2			93.2			91.9			103.8			102.6		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Ventilation	Hr 17			Hr 18			Hr 19			Hr 20			Hr 21			Hr 22			Hr 23			Hr 24		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	1016	TLCTS	1699	3126	60%	3962	0.162	1247.1	4516	0.149	1306.8	4744	0.121	1117.0	3627	0.120	843.2	3015	0.132	770.2	2843	0.134	741.6	2809	0.134	732.6	2159	0.136	571.5
	1017	TLCTS	1200	2448	60%	3563	0.177	958.1	3894	0.164	969.8	3789	0.134	772.2	2861	0.133	578.8	2353	0.143	512.0	2207	0.145	487.6	2160	0.145	475.8	1674	0.147	374.6
	1019	TLCTS	620	792	60%	1514	0.319	237.8	1739	0.288	246.0	1865	0.222	203.2	1427	0.206	144.4	1189	0.207	121.0	1120	0.205	112.7	1109	0.202	109.9	852	0.198	83.0
	1020	TLCTS	629	629	60%	2050	0.191	153.2	2154	0.180	151.6	1923	0.154	116.1	1435	0.156	87.3	1164	0.165	74.8	1088	0.167	70.9	1051	0.166	68.1	822	0.168	54.0
	<i>Emission at North VB (50% of total emission g/hr)</i>						446.1			459.0			378.3			282.7			251.8			240.4			235.7			184.0	
<i>Emission at South VB (50% of total emission g/hr)</i>						446.1			459.0			378.3			282.7			251.8			240.4			235.7			184.0		
NO2	1016	TLCTS	1699	3126	60%	3962	0.036	273.8	4516	0.031	268.3	4744	0.023	207.1	3627	0.022	157.1	3015	0.022	129.7	2843	0.020	110.3	2809	0.019	101.0	2159	0.020	82.7
	1017	TLCTS	1200	2448	60%	3563	0.043	230.8	3894	0.037	219.3	3789	0.028	158.7	2861	0.028	120.7	2353	0.028	99.1	2207	0.026	87.0	2160	0.025	80.7	1674	0.026	65.9
	1019	TLCTS	620	792	60%	1514	0.075	55.5	1739	0.063	54.0	1865	0.044	40.7	1427	0.040	28.2	1189	0.036	21.2	1120	0.031	17.1	1109	0.028	15.5	852	0.029	12.2
	1020	TLCTS	629	629	60%	2050	0.051	40.6	2154	0.046	38.3	1923	0.036	27.1	1435	0.037	20.9	1164	0.038	17.2	1088	0.037	15.7	1051	0.036	14.7	822	0.037	11.9
	<i>Emission at North VB (50% of total emission g/hr)</i>						103.8			100.2			74.8			56.3			45.9			39.5			36.4			29.6	
<i>Emission at South VB (50% of total emission g/hr)</i>						103.8			100.2			74.8			56.3			45.9			39.5			36.4			29.6		

Hourly Emission of Lam Tei Tunnel Ventilation Building (1st Jan, Short Term, Year 2048)

Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emittted at Ventilation	Hr 01			Hr 02			Hr 03			Hr 04			Hr 05			Hr 06			Hr 07			Hr 08		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	1010	LTT	4223	4850	60%	971	0.173	505.3	663	0.177	353.6	455	0.179	245.7	347	0.181	189.6	400	0.183	221.1	738	0.185	411.5	1678	0.189	954.1	3434	0.188	1947.0
	1009	LTT	4226	4869	60%	1217	0.165	607.9	827	0.170	424.2	566	0.172	294.4	429	0.175	226.6	495	0.177	264.6	908	0.177	487.4	2056	0.182	1129.2	4205	0.186	2364.5
	<i>Emission at North VB (50% of total emission g/hr)</i>						290.3			202.8			140.9			108.5			126.7			234.4			543.2			1124.2	
<i>Emission at South VB (50% of total emission g/hr)</i>						290.3			202.8			140.9			108.5			126.7			234.4			543.2			1124.2		
NO2	1010	LTT	4223	4850	60%	971	0.028	83.1	663	0.030	60.0	455	0.032	43.2	347	0.032	33.9	400	0.034	40.6	738	0.035	78.1	1678	0.037	186.0	3434	0.035	364.2
	1009	LTT	4226	4869	60%	1217	0.024	88.4	827	0.026	63.8	566	0.027	46.5	429	0.028	36.5	495	0.030	44.3	908	0.031	84.5	2056	0.033	202.1	4205	0.032	406.7
	<i>Emission at North VB (50% of total emission g/hr)</i>						44.7			32.3			23.4			18.4			22.1			42.4			101.2			201.0	
<i>Emission at South VB (50% of total emission g/hr)</i>						44.7			32.3			23.4			18.4			22.1			42.4			101.2			201.0		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emittted at Ventilation	Hr 09			Hr 10			Hr 11			Hr 12			Hr 13			Hr 14			Hr 15			Hr 16		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	1010	LTT	4223	4850	60%	3493	0.174	1827.1	3162	0.200	1909.6	2983	0.213	1910.3	2865	0.205	1772.5	2998	0.184	1660.8	3095	0.193	1798.7	3294	0.187	1854.9	3400	0.195	1997.7
	1009	LTT	4226	4869	60%	4256	0.171	2202.4	3716	0.194	2185.0	3468	0.208	2185.0	3365	0.200	2039.1	2793	0.203	1712.8	2875	0.209	1815.0	3145	0.208	1977.6	3161	0.213	2032.4
	<i>Emission at North VB (50% of total emission g/hr)</i>						1050.7			1067.7			1067.9			993.9			879.8			942.4			999.4			1051.0	
<i>Emission at South VB (50% of total emission g/hr)</i>						1050.7			1067.7			1067.9			993.9			879.8			942.4			999.4			1051.0		
NO2	1010	LTT	4223	4850	60%	3493	0.036	375.2	3162	0.045	430.0	2983	0.048	434.7	2865	0.045	384.4	2998	0.039	354.3	3095	0.037	347.9	3294	0.039	391.1	3400	0.038	390.0
	1009	LTT	4226	4869	60%	4256	0.032	413.9	3716	0.040	453.7	3468	0.044	459.2	3365	0.040	405.0	2793	0.050	418.3	2875	0.048	417.4	3145	0.050	474.4	3161	0.049	464.8
	<i>Emission at North VB (50% of total emission g/hr)</i>						205.8			230.4			233.1			205.9			201.5			199.5			225.7			222.9	
<i>Emission at South VB (50% of total emission g/hr)</i>						205.8			230.4			233.1			205.9			201.5			199.5			225.7			222.9		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emittted at Ventilation	Hr 17			Hr 18			Hr 19			Hr 20			Hr 21			Hr 22			Hr 23			Hr 24		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	1010	LTT	4223	4850	60%	3613	0.187	2033.1	4163	0.173	2173.4	4449	0.142	1904.5	3411	0.139	1430.9	2844	0.154	1316.5	2681	0.159	1284.0	2655	0.156	1245.6	2038	0.158	970.4
	1009	LTT	4226	4869	60%	3314	0.207	2070.9	3631	0.193	2116.0	3550	0.157	1681.4	2682	0.152	1234.1	2208	0.166	1107.3	2072	0.171	1069.0	2027	0.167	1022.3	1573	0.169	806.1
	<i>Emission at North VB (50% of total emission g/hr)</i>						1070.3			1118.7			935.3			695.1			632.2			613.7			591.5			463.4	
<i>Emission at South VB (50% of total emission g/hr)</i>						1070.3			1118.7			935.3			695.1			632.2			613.7			591.5			463.4		
NO2	1010	LTT	4223	4850	60%	3613	0.037	404.3	4163	0.032	404.5	4449	0.024	318.7	3411	0.023	240.8	2844	0.023	199.2	2681	0.021	167.9	2655	0.019	151.8	2038	0.020	124.3
	1009	LTT	4226	4869	60%	3314	0.046	464.8	3631	0.041	445.8	3550	0.030	323.0	2682	0.030	242.0	2208	0.030	199.4	2072	0.028	175.3	2027	0.026	160.3	1573	0.028	131.9
	<i>Emission at North VB (50% of total emission g/hr)</i>						226.6			221.7			167.4			125.9			103.9			89.5			81.4			66.8	
<i>Emission at South VB (50% of total emission g/hr)</i>						226.6			221.7			167.4			125.9			103.9			89.5			81.4			66.8		

Hourly Emission of Tuen Mun Bypass North Ventilation Building (1st Jan, Short Term, Year 2048)

Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emittted at Ventilation	Hr 01			Hr 02			Hr 03			Hr 04			Hr 05			Hr 06			Hr 07			Hr 08		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	5009	TMB Tunnel (NB)	7453	7532	60%	496	0.179	416.0	339	0.183	290.9	234	0.184	201.9	181	0.188	159.4	213	0.191	190.2	392	0.192	351.7	894	0.195	815.5	1852	0.190	1647.9
	5015	TMB Tunnel (SB)	7470	7600	60%	676	0.171	544.2	460	0.174	378.9	317	0.177	264.8	241	0.180	205.3	280	0.183	242.0	515	0.183	445.6	1169	0.187	1030.5	2399	0.182	2058.4
	<i>Emission at North VB (33% of total emission g/hr)</i>						189.3			132.1			92.0			71.9			85.2			157.2			363.9			730.7	
<i>Emission at South VB (33% of total emission g/hr)</i>						189.3			132.1			92.0			71.9			85.2			157.2			363.9			730.7		
NO2	5009	TMB Tunnel (NB)	7453	7532	60%	496	0.033	77.3	339	0.035	54.7	234	0.035	38.5	181	0.037	31.3	213	0.039	39.1	392	0.040	73.0	894	0.041	173.0	1852	0.040	345.2
	5015	TMB Tunnel (SB)	7470	7600	60%	676	0.027	87.1	460	0.029	62.2	317	0.030	45.4	241	0.032	36.0	280	0.034	45.0	515	0.034	83.5	1169	0.036	198.2	2399	0.034	388.7
	<i>Emission at North VB (33% of total emission g/hr)</i>						32.4			23.1			16.5			13.3			16.6			30.8			73.2			144.7	
<i>Emission at South VB (33% of total emission g/hr)</i>						32.4			23.1			16.5			13.3			16.6			30.8			73.2			144.7		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emittted at Ventilation	Hr 09			Hr 10			Hr 11			Hr 12			Hr 13			Hr 14			Hr 15			Hr 16		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	5009	TMB Tunnel (NB)	7453	7532	60%	1896	0.178	1580.3	1831	0.201	1725.2	1761	0.212	1747.1	1668	0.208	1626.1	2129	0.206	2052.7	2187	0.211	2155.1	2441	0.208	2375.2	2406	0.210	2366.5
	5015	TMB Tunnel (SB)	7470	7600	60%	2440	0.167	1922.7	2212	0.191	1998.4	2088	0.205	2016.6	2008	0.200	1893.6	1431	0.208	1405.2	1468	0.212	1472.1	1639	0.208	1612.0	1613	0.212	1613.9
	<i>Emission at North VB (33% of total emission g/hr)</i>						690.7			734.2			742.1			694.0			682.4			715.9			786.9			785.6	
<i>Emission at South VB (33% of total emission g/hr)</i>						690.7			734.2			742.1			694.0			682.4			715.9			786.9			785.6		
NO2	5009	TMB Tunnel (NB)	7453	7532	60%	1896	0.041	360.3	1831	0.050	427.2	1761	0.053	437.5	1668	0.050	389.4	2129	0.055	545.2	2187	0.054	548.3	2441	0.055	624.2	2406	0.054	603.2
	5015	TMB Tunnel (SB)	7470	7600	60%	2440	0.035	399.8	2212	0.044	456.4	2088	0.047	464.9	2008	0.044	412.4	1431	0.056	376.2	1468	0.055	378.3	1639	0.055	428.3	1613	0.055	415.5
	<i>Emission at North VB (33% of total emission g/hr)</i>						149.9			174.3			178.0			158.1			181.8			182.9			207.7			201.0	
<i>Emission at South VB (33% of total emission g/hr)</i>						149.9			174.3			178.0			158.1			181.8			182.9			207.7			201.0		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emittted at Ventilation	Hr 17			Hr 18			Hr 19			Hr 20			Hr 21			Hr 22			Hr 23			Hr 24		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	5009	TMB Tunnel (NB)	7453	7532	60%	2500	0.205	2394.1	2639	0.192	2367.9	2396	0.162	1811.7	1786	0.162	1357.0	1452	0.173	1178.3	1353	0.177	1122.5	1312	0.174	1065.6	1026	0.176	847.0
	5015	TMB Tunnel (SB)	7470	7600	60%	1678	0.205	1624.2	1764	0.193	1603.6	1590	0.164	1229.1	1186	0.165	924.1	964	0.176	801.1	898	0.180	764.1	869	0.176	723.9	680	0.178	573.0
	<i>Emission at North VB (33% of total emission g/hr)</i>						793.0			783.8			600.1			450.2			390.7			372.3			353.2			280.3	
<i>Emission at South VB (33% of total emission g/hr)</i>						793.0			783.8			600.1			450.2			390.7			372.3			353.2			280.3		
NO2	5009	TMB Tunnel (NB)	7453	7532	60%	2500	0.050	590.1	2639	0.044	548.2	2396	0.034	378.3	1786	0.034	286.9	1452	0.034	233.0	1353	0.033	207.6	1312	0.031	192.3	1026	0.033	157.7
	5015	TMB Tunnel (SB)	7470	7600	60%	1678	0.051	405.9	1764	0.045	377.2	1590	0.035	260.3	1186	0.036	198.6	964	0.036	161.8	898	0.034	145.5	869	0.033	134.8	680	0.034	109.2
	<i>Emission at North VB (33% of total emission g/hr)</i>						196.6			182.6			126.0			95.8			77.9			69.7			64.6			52.7	
<i>Emission at South VB (33% of total emission g/hr)</i>						196.6			182.6			126.0			95.8			77.9			69.7			64.6			52.7		

Hourly Emission of So Kwun Wat Link Road Ventilation Building (1st Jan, Short Term, Year 2048)

Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Ventilation	Hr 01			Hr 02			Hr 03			Hr 04			Hr 05			Hr 06			Hr 07			Hr 08		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	1011	SKWLR	2020	2622	60%	570	0.157	145.8	387	0.163	102.6	263	0.163	69.7	199	0.168	54.6	227	0.169	62.4	419	0.171	116.6	945	0.174	267.5	1930	0.172	540.6
	1012	SKWLR	1973	2514	60%	64	0.193	19.3	43	0.202	13.6	28	0.186	8.1	21	0.198	6.5	24	0.198	7.4	45	0.207	14.6	105	0.207	33.9	202	0.181	57.0
	<i>Emission at North VB (50% of total emission g/hr)</i>						38.3			26.9			18.0			14.2			16.2			30.4			69.8			138.4	
<i>Emission at South VB (50% of total emission g/hr)</i>						38.3			26.9			18.0			14.2			16.2			30.4			69.8			138.4		
NO2	1011	SKWLR	2020	2622	60%	570	0.019	18.0	387	0.021	13.4	263	0.022	9.3	199	0.025	8.0	227	0.024	8.9	419	0.027	18.3	945	0.028	43.0	1930	0.028	87.3
	1012	SKWLR	1973	2514	60%	64	0.036	3.6	43	0.040	2.7	28	0.031	1.3	21	0.032	1.1	24	0.035	1.3	45	0.045	3.2	105	0.042	7.0	202	0.031	9.8
	<i>Emission at North VB (50% of total emission g/hr)</i>						5.0			3.7			2.5			2.1			2.4			5.0			11.6			22.5	
<i>Emission at South VB (50% of total emission g/hr)</i>						5.0			3.7			2.5			2.1			2.4			5.0			11.6			22.5		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Ventilation	Hr 09			Hr 10			Hr 11			Hr 12			Hr 13			Hr 14			Hr 15			Hr 16		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	1011	SKWLR	2020	2622	60%	1940	0.152	481.0	1627	0.174	461.0	1498	0.190	463.6	1471	0.185	442.2	219	0.222	79.1	222	0.224	81.2	248	0.219	88.6	245	0.223	89.1
	1012	SKWLR	1973	2514	60%	204	0.166	52.8	166	0.206	53.5	149	0.221	51.5	147	0.214	49.1	308	0.226	108.7	314	0.229	112.3	357	0.225	125.4	343	0.227	121.5
	<i>Emission at North VB (50% of total emission g/hr)</i>						123.6			119.2			119.3			113.8			43.9			45.2			50.0			49.2	
<i>Emission at South VB (50% of total emission g/hr)</i>						123.6			119.2			119.3			113.8			43.9			45.2			50.0			49.2		
NO2	1011	SKWLR	2020	2622	60%	1940	0.027	84.9	1627	0.034	89.3	1498	0.037	90.1	1471	0.033	79.5	219	0.062	22.1	222	0.060	21.6	248	0.060	24.3	245	0.060	23.8
	1012	SKWLR	1973	2514	60%	204	0.033	10.6	166	0.048	12.6	149	0.050	11.7	147	0.045	10.4	308	0.066	31.5	314	0.065	31.7	357	0.064	35.8	343	0.064	34.1
	<i>Emission at North VB (50% of total emission g/hr)</i>						22.1			23.6			23.6			20.8			12.5			12.5			14.1			13.6	
<i>Emission at South VB (50% of total emission g/hr)</i>						22.1			23.6			23.6			20.8			12.5			12.5			14.1			13.6		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Ventilation	Hr 17			Hr 18			Hr 19			Hr 20			Hr 21			Hr 22			Hr 23			Hr 24		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	1011	SKWLR	2020	2622	60%	254	0.217	89.7	271	0.208	91.8	247	0.181	72.9	184	0.182	54.6	152	0.200	49.5	143	0.205	47.7	137	0.198	44.2	107	0.202	35.3
	1012	SKWLR	1973	2514	60%	354	0.222	122.8	362	0.215	121.6	304	0.193	91.6	221	0.194	66.8	180	0.206	58.1	169	0.212	55.9	158	0.206	50.7	127	0.209	41.4
	<i>Emission at North VB (50% of total emission g/hr)</i>						49.6			49.9			38.4			28.3			25.1			24.2			22.2			17.9	
<i>Emission at South VB (50% of total emission g/hr)</i>						49.6			49.9			38.4			28.3			25.1			24.2			22.2			17.9		
NO2	1011	SKWLR	2020	2622	60%	254	0.057	23.6	271	0.053	23.3	247	0.043	17.3	184	0.044	13.1	152	0.047	11.7	143	0.046	10.8	137	0.043	9.7	107	0.044	7.6
	1012	SKWLR	1973	2514	60%	354	0.060	33.3	362	0.056	31.8	304	0.047	22.3	221	0.049	16.8	180	0.051	14.3	169	0.052	13.6	158	0.049	12.2	127	0.050	10.0
	<i>Emission at North VB (50% of total emission g/hr)</i>						13.3			12.9			9.3			7.0			6.1			5.7			5.1			4.1	
<i>Emission at South VB (50% of total emission g/hr)</i>						13.3			12.9			9.3			7.0			6.1			5.7			5.1			4.1		

Hourly Emission of Tai Lam Chung Tunnel (South Section) Ventilation Building (1st Jan, Short Term, Year 2048)

Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Ventilation	Hr 01			Hr 02			Hr 03			Hr 04			Hr 05			Hr 06			Hr 07			Hr 08		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	1016	TLCTS	1699	3126	60%	1034	0.172	345.8	705	0.1765	241.8	483	0.1789	167.8	369	0.1826	130.9	427	0.1836	152.3	782	0.1846	280.4	1778	0.1882	650.1	3631	0.1822	1285.5
	1017	TLCTS	1200	2448	60%	1786	0.163	441.7	1213	0.1669	308.0	832	0.1693	214.3	629	0.1725	165.1	726	0.1747	192.9	1328	0.1752	354.0	3001	0.1788	816.6	6134	0.2118	1976.9
	1019	TLCTS	620	792	60%	345	0.282	47.8	238	0.2838	33.2	167	0.2828	23.2	129	0.2922	18.5	150	0.2946	21.7	285	0.3159	44.3	656	0.3622	116.9	1383	0.4454	303.0
	1020	TLCTS	629	629	60%	1444	0.159	89.9	973	0.1634	62.2	662	0.1655	42.8	500	0.1685	32.9	572	0.1703	38.1	1046	0.1713	70.0	2343	0.1745	159.8	4754	0.1744	324.0
	<i>Emission at North VB (50% of total emission g/hr)</i>						159.5			111.2			77.2			59.9			69.7			129.2			301.5			668.7	
<i>Emission at South VB (50% of total emission g/hr)</i>						159.5			111.2			77.2			59.9			69.7			129.2			301.5			668.7		
NO2	1016	TLCTS	1699	3126	60%	1034	0.028	56.4	705	0.030	40.7	483	0.031	28.9	369	0.033	23.4	427	0.034	28.1	782	0.035	52.9	1778	0.036	125.7	3631	0.034	241.1
	1017	TLCTS	1200	2448	60%	1786	0.023	61.1	1213	0.024	44.1	832	0.026	32.3	629	0.027	25.8	726	0.028	31.1	1328	0.029	59.5	3001	0.031	141.2	6134	0.037	349.1
	1019	TLCTS	620	792	60%	345	0.058	9.9	238	0.060	7.0	167	0.060	4.9	129	0.063	4.0	150	0.064	4.7	285	0.072	10.1	656	0.085	27.5	1383	0.110	74.6
	1020	TLCTS	629	629	60%	1444	0.020	11.3	973	0.021	8.1	662	0.023	5.9	500	0.024	4.7	572	0.025	5.6	1046	0.026	10.8	2343	0.028	25.3	4754	0.027	49.3
	<i>Emission at North VB (50% of total emission g/hr)</i>						23.9			17.2			12.4			10.0			11.9			23.0			55.3			123.0	
<i>Emission at South VB (50% of total emission g/hr)</i>						23.9			17.2			12.4			10.0			11.9			23.0			55.3			123.0		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Ventilation	Hr 09			Hr 10			Hr 11			Hr 12			Hr 13			Hr 14			Hr 15			Hr 16		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	1016	TLCTS	1699	3126	60%	3690	0.168	1204.5	3320	0.193	1246.1	3123	0.206	1251.5	3006	0.200	1170.5	3296	0.185	1182.1	3402	0.192	1271.0	3640	0.186	1317.8	3738	0.194	1409.9
	1017	TLCTS	1200	2448	60%	6194	0.205	1934.8	5341	0.195	1581.3	4969	0.206	1560.6	4834	0.199	1466.8	3005	0.198	904.1	3092	0.205	962.7	3385	0.202	1038.3	3398	0.207	1068.3
	1019	TLCTS	620	792	60%	1423	0.451	315.9	1448	0.537	382.8	1422	0.563	394.1	1327	0.529	345.5	1254	0.356	219.7	1297	0.365	233.1	1380	0.377	255.8	1427	0.379	266.0
	1020	TLCTS	629	629	60%	4773	0.155	289.1	3893	0.177	269.0	3546	0.192	266.2	3508	0.186	254.3	1750	0.215	146.8	1797	0.219	153.6	2010	0.215	168.6	1973	0.218	167.9
	<i>Emission at North VB (50% of total emission g/hr)</i>						641.9			606.4			606.1			564.1			421.4			449.7			478.3			499.9	
<i>Emission at South VB (50% of total emission g/hr)</i>						641.9			606.4			606.1			564.1			421.4			449.7			478.3			499.9		
NO2	1016	TLCTS	1699	3126	60%	3690	0.035	249.1	3320	0.044	284.2	3123	0.047	286.8	3006	0.044	254.1	3296	0.041	262.2	3402	0.039	258.9	3640	0.041	290.5	3738	0.040	289.5
	1017	TLCTS	1200	2448	60%	6194	0.040	378.9	5341	0.039	316.4	4969	0.042	317.6	4834	0.038	280.3	3005	0.049	225.6	3092	0.048	226.0	3385	0.050	255.6	3398	0.048	250.3
	1019	TLCTS	620	792	60%	1423	0.117	81.6	1448	0.144	102.5	1422	0.154	107.6	1327	0.140	91.2	1254	0.084	51.6	1297	0.080	51.0	1380	0.089	60.3	1427	0.085	59.4
	1020	TLCTS	629	629	60%	4773	0.026	48.4	3893	0.033	49.9	3546	0.036	49.4	3508	0.032	43.7	1750	0.059	40.4	1797	0.058	40.7	2010	0.059	45.9	1973	0.058	44.5
	<i>Emission at North VB (50% of total emission g/hr)</i>						130.0			131.9			133.6			117.2			100.2			99.7			112.9			111.3	
<i>Emission at South VB (50% of total emission g/hr)</i>						130.0			131.9			133.6			117.2			100.2			99.7			112.9			111.3		
Pollutant	Flow ID	Road link	Tunnel Length (m)	Full Length (m)	Percentage Emitted at Ventilation	Hr 17			Hr 18			Hr 19			Hr 20			Hr 21			Hr 22			Hr 23			Hr 24		
						Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)	Flow (veh/hr)	EmF (g/veh/mi)	Emission (g/hr)
NO	1016	TLCTS	1699	3126	60%	3962	0.186	1430.8	4516	0.172	1506.6	4744	0.140	1293.8	3627	0.140	984.7	3015	0.155	910.5	2843	0.161	888.8	2809	0.157	859.1	2159	0.160	670.9
	1017	TLCTS	1200	2448	60%	3563	0.199	1077.9	3894	0.185	1098.6	3789	0.153	880.3	2861	0.153	664.9	2353	0.166	595.4	2207	0.171	574.4	2160	0.167	549.8	1674	0.170	433.1
	1019	TLCTS	620	792	60%	1514	0.361	269.0	1739	0.327	280.1	1865	0.254	232.7	1427	0.238	167.0	1189	0.243	142.0	1120	0.244	134.3	1109	0.235	128.4	852	0.232	97.1
	1020	TLCTS	629	629	60%	2050	0.212	169.7	2154	0.201	169.1	1923	0.173	130.1	1435	0.175	98.4	1164	0.187	85.2	1088	0.192	81.6	1051	0.188	77.1	822	0.190	61.2
	<i>Emission at North VB (50% of total emission g/hr)</i>						506.0			523.8			434.2			327.1			295.0			285.5			274.3			214.3	
<i>Emission at South VB (50% of total emission g/hr)</i>						506.0			523.8			434.2			327.1			295.0			285.5			274.3			214.3		
NO2	1016	TLCTS	1699	3126	60%	3962	0.039	296.9	4516	0.033	292.9	4744	0.025	226.2	3627	0.024	171.3	3015	0.024	142.1	2843	0.022	121.6	2809	0.020	110.2	2159	0.022	90.3
	1017	TLCTS	1200	2448	60%	3563	0.046	249.4	3894	0.040	238.4	3789	0.030	172.6	2861	0.030	131.1	2353	0.030	107.9	2207	0.028	95.3	2160	0.027	87.4	1674	0.028	71.5
	1019	TLCTS	620	792	60%	1514	0.080	59.9	1739	0.069	58.7	1865	0.048	44.3	1427	0.044	30.7	1189	0.040	23.2	1120	0.034	18.8	1109	0.031	16.9	852	0.032	13.3
	1020	TLCTS	629	629	60%	2050	0.055	43.7	2154	0.049	41.5	1923	0.039	29.3	1435	0.040	22.7	1164	0.041	18.7	1088	0.040	17.1	1051	0.039	15.9	822	0.040	12.8
	<i>Emission at North VB (50% of total emission g/hr)</i>						112.3			109.1			81.5			61.2			50.1			43.4			39.6			32.2	
<i>Emission at South VB (50% of total emission g/hr)</i>						112.3			109.1			81.5			61.2			50.1			43.4			39.6			32.2		