Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 00-01)

Traffic (Hour: 00-01)

Hour: 00-01				Flow Rate (veh./hr)																	% of Total Flow																
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
1	Yip Hing St	1	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	Tong Bin Lane	1	20	10	5	0	0	0	0	5	0	0	0	0	0	0	0	0	0	50.00	25.00	0.00	0.00	0.00	0.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	Tong Bin Lane (near J/Wong Chuk	1	30	15	5	0	5	0	0	5	0	0	0	0	0	0	0	0	0	50.00	16.67	0.00	16.67	0.00	0.00	16.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	Yip Kan St	1	30	15	5	0	5	0	0	5	0	0	0	0	0	0	0	0	0	50.00	16.67	0.00	16.67	0.00	0.00	16.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	Wong Chuk Hang Road	2	590	250	95	0	55	30	5	15	30	15	10	10	5	5	5	40	20	42.37	16.10	0.00	9.32	5.08	0.85	2.54	5.08	2.54	1.69	1.69	0.85	0.85	0.85	6.78	3.39
6	Wong Chuk Hang Road	2	690	285	110	0	65	40	5	20	35	15	15	10	5	5	5	50	25	41.30	15.94	0.00	9.42	5.80	0.72	2.90	5.07	2.17	2.17	1.45	0.72	0.72	0.72	7.25	3.62
7	Wong Chuk Hang Road	2	285	85	45	0	20	10	0	5	30	5	5	5	5	5	5	55	5	29.82	15.79	0.00	7.02	3.51	0.00	1.75	10.53	1.75	1.75	1.75	1.75	1.75	1.75	19.30	1.75
8	Wong Chuk Hang Road(flyover)	3	400	185	65	0	40	25	5	10	10	10	10	5	5	5	0	10	15	46.25	16.25	0.00	10.00	6.25	1.25	2.50	2.50	2.50	2.50	1.25	1.25	1.25	0.00	2.50	3.75
9	Wong Chuk Hang Road	2	415	205	60	0	20	10	5	10	15	10	10	5	5	5	5	45	5	49.40	14.46	0.00	4.82	2.41	1.20	2.41	3.61	2.41	2.41	1.20	1.20	1.20	1.20	10.84	1.20
10	Wong Chuk Hang Road	2	305	150	45	0	15	10	5	5	10	5	5	5	5	5	5	30	5	49.18	14.75	0.00	4.92	3.28	1.64	1.64	3.28	1.64	1.64	1.64	1.64	1.64	1.64	9.84	1.64
11	Wong Chuk Hang Road	2	245	125	40	0	10	5	5	5	10	5	5	5	0	0	0	25	5	51.02	16.33	0.00	4.08	2.04	2.04	2.04	4.08	2.04	2.04	2.04	0.00	0.00	0.00	10.20	2.04
12	Wong Chuk Hang Road(flyover)	3	480	225	80	0	50	30	5	15	10	10	10	5	5	5	0	10	20	46.88	16.67	0.00	10.42	6.25	1.04	3.13	2.08	2.08	2.08	1.04	1.04	1.04	0.00	2.08	4.17
13	Wong Chuk Hang Road	2	275	30	35	0	10	5	0	0	45	5	0	5	5	5	10	115	5	10.91	12.73	0.00	3.64	1.82	0.00	0.00	16.36	1.82	0.00	1.82	1.82	1.82	3.64	41.82	1.82
14	Wong Chuk Hang Road	2	140	40	20	0	10	5	0	0	15	5	5	5	0	0	5	25	5	28.57	14.29	0.00	7.14	3.57	0.00	0.00	10.71	3.57	3.57	3.57	0.00	0.00	3.57	17.86	3.57
15	Wong Chuk Hang Road	2	615	255	100	0	60	35	5	15	30	15	10	10	5	5	5	45	20	41.46	16.26	0.00	9.76	5.69	0.81	2.44	4.88	2.44	1.63	1.63	0.81	0.81	0.81	7.32	3.25
16	Nam Long Shan Road	1	370	170	50	0	20	10	5	5	20	10	10	5	5	5	5	40	10	45.95	13.51	0.00	5.41	2.70	1.35	1.35	5.41	2.70	2.70	1.35	1.35	1.35	1.35	10.81	2.70
17	Heung Yip Road	1	85	45	10	0	10	5	0	0	0	5	5	0	0	0	0	0	5	52.94	11.76	0.00	11.76	5.88	0.00	0.00	0.00	5.88	5.88	0.00	0.00	0.00	0.00	0.00	5.88
18	Heung Yip Road	1	110	55	10	0	15	10	0	0	0	5	5	5	0	0	0	0	5	50.00	9.09	0.00	13.64	9.09	0.00	0.00	0.00	4.55	4.55	4.55	0.00	0.00	0.00	0.00	4.55
19	Heung Yip Road	1	150	75	15	0	20	10	0	5	0	10	5	5	0	0	0	0	5	50.00	10.00	0.00	13.33	6.67	0.00	3.33	0.00	6.67	3.33	3.33	0.00	0.00	0.00	0.00	3.33
20	Yip Fat St	1	65	35	5	0	10	5	0	0	0	5	5	0	0	0	0	0	0	53.85	7.69	0.00	15.38	7.69	0.00	0.00	0.00	7.69	7.69	0.00	0.00	0.00	0.00	0.00	0.00
21	Heung Yip Road	1	75	40	5	0	10	5	0	0	0	5	5	0	0	0	0	0	5	53.33	6.67	0.00	13.33	6.67	0.00	0.00	0.00	6.67	6.67	0.00	0.00	0.00	0.00	0.00	6.67
22	Yip Fat St	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	Yip Fat St	1	45	25	5	0	5	5	0	0	0	5	0	0	0	0	0	0	0	55.56	11.11	0.00	11.11	11.11	0.00	0.00	0.00	11.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	Heung Yip Road	1	75	40	5	0	10	5	0	0	0	5	5	0	0	0	0	0	5	53.33	6.67	0.00	13.33	6.67	0.00	0.00	0.00	6.67	6.67	0.00	0.00	0.00	0.00	0.00	6.67
25	Heung Yip Road	1	90	50	10	0	10	5	0	0	0	5	5	0	0	0	0	0	5	55.56	11.11	0.00	11.11	5.56	0.00	0.00	0.00	5.56	5.56	0.00	0.00	0.00	0.00	0.00	5.56
26	Heung Yip Road	1	105	60	15	0	10	5	0	0	0	5	5	0	0	0	0	0	5	57.14	14.29	0.00	9.52	4.76	0.00	0.00	0.00	4.76	4.76	0.00	0.00	0.00	0.00	0.00	4.76
27	Heung Yip Road	1	25	15	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	60.00	20.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	Heung Yip Road	1	40	25	5	0	5	5	0	0	0	0	0	0	0	0	0	0	0	62.50	12.50	0.00	12.50	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	Heung Yip Road	1	55	30	5	0	5	5	0	0	0	5	5	0	0	0	0	0	0	54.55	9.09	0.00	9.09	9.09	0.00	0.00	0.00	9.09	9.09	0.00	0.00	0.00	0.00	0.00	0.00
30	Nam Long Shan Road	1	10	0	0	0	0	0	0	0	5	0	0	0	0	0	0	5	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	50.00	0.00
31	Nam Long Shan Road	1	125	70	15	0	5	5	0	0	5	5	5	0	0	0	0	10	5	56.00	12.00	0.00	4.00	4.00	0.00	0.00	4.00	4.00	4.00	0.00	0.00	0.00	0.00	8.00	4.00
32	Nam Long Shan Road	1	120	65	15	0	5	5	0	0	5	5	5	0	0	0	0	10	5	54.17	12.50	0.00	4.17	4.17	0.00	0.00	4.17	4.17	4.17	0.00	0.00	0.00	0.00	8.33	4.17
33	Welfare Road	1	15	10	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66.67	33.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	Welfare Road	1	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	Shum Wan Road	1	60	25	10	0	5	0	0	0	5	5	5	0	0	0	0	5	0	41.67	16.67	0.00	8.33	0.00	0.00	0.00	8.33	8.33	8.33	0.00	0.00	0.00	0.00	8.33	0.00
36	Shum Wan Road	1	60	25	10	0	5	0	0	0	5	5	5	0	0	0	0	5	0	41.67	16.67	0.00	8.33	0.00	0.00	0.00	8.33	8.33	8.33	0.00	0.00	0.00	0.00	8.33	0.00
37	Shum Wan Pier Drive	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38	Nam Long Shan Road	1	125	70	15	0	5	5	0	0	5	5	5	0	0	0	0	10	5	56.00	12.00	0.00	4.00	4.00	0.00	0.00	4.00	4.00	4.00	0.00	0.00	0.00	0.00	8.00	4.00
39	Nam Long Shan Road	1	20	15	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40	Nam Long Shan Road	1	20	15	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
41	Police School Road	1	120	65	15	0	5	5	0	0	5	5	5	0	0	0	0	10	5	54.17	12.50	0.00	4.17	4.17	0.00	0.00	4.17	4.17	4.17	0.00	0.00	0.00	0.00	8.33	4.17
42#	Police School Road		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 00-01)

Emission Factor Calculations (Hour: 00-01)

Hour: 00-01				% of Total Flow x Emission Factor (NOx)																% of Total Flow x Emission Factor (RSP)																Composite Emission Factor (g/veh·km)	
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	NOx	RSP
1	Yip Hing St	1	5	4.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.048	0.005
2	Tong Bin Lane	1	20	2.39	10.57	0.00	0.00	0.00	0.00	105.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.00	5.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.184	0.062
3	Tong Bin Lane (near J/Wong Chuk	1	30	2.39	7.05	0.00	13.79	0.00	0.00	70.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.94	0.00	0.00	3.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.935	0.052
4	Yip Kan St	1	30	2.39	7.05	0.00	13.79	0.00	0.00	70.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.94	0.00	0.00	3.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.935	0.052
5	Wong Chuk Hang Road	2	590	1.84	6.22	0.00	6.98	8.73	1.87	9.79	5.05	0.36	1.38	3.07	3.12	4.95	4.81	39.91	1.17	0.17	0.00	0.00	0.44	0.24	0.10	0.47	0.40	0.04	0.06	0.23	0.21	0.24	0.04	0.42	0.03	0.993	0.031
6	Wong Chuk Hang Road	2	690	1.79	6.16	0.00	7.06	9.95	1.60	11.16	5.03	0.31	1.77	2.62	2.67	4.24	4.12	42.66	1.26	0.17	0.00	0.00	0.44	0.28	0.08	0.53	0.40	0.03	0.08	0.20	0.18	0.21	0.03	0.44	0.03	1.024	0.031
7	Wong Chuk Hang Road	2	285	1.29	6.10	0.00	5.26	6.02	0.00	6.76	10.45	0.25	1.43	3.18	6.46	10.25	9.96	113.61	0.61	0.12	0.00	0.00	0.33	0.17	0.00	0.32	0.84	0.02	0.07	0.24	0.43	0.50	0.08	1.18	0.01	1.816	0.043
8	Wong Chuk Hang Road(flyover)	3	400	1.65	5.09	0.00	7.22	8.68	2.31	8.16	2.69	0.29	1.91	1.75	3.58	5.69	0.00	12.43	1.29	0.10	0.00	0.00	0.28	0.24	0.09	0.31	0.14	0.02	0.10	0.17	0.31	0.29	0.00	0.14	0.03	0.627	0.022
9	Wong Chuk Hang Road	2	415	2.14	5.58	0.00	3.61	4.13	2.66	9.28	3.59	0.34	1.96	2.18	4.44	7.04	6.84	63.83	0.42	0.20	0.00	0.00	0.23	0.11	0.14	0.44	0.29	0.03	0.09	0.16	0.29	0.34	0.06	0.66	0.01	1.181	0.031
10	Wong Chuk Hang Road	2	305	2.13	5.70	0.00	3.68	5.63	3.62	6.31	3.25	0.23	1.33	2.97	6.04	9.58	9.31	57.90	0.57	0.20	0.00	0.00	0.23	0.16	0.18	0.30	0.26	0.02	0.06	0.22	0.40	0.46	0.08	0.60	0.01	1.183	0.032
11	Wong Chuk Hang Road	2	245	2.21	6.31	0.00	3.06	3.50	4.51	7.86	4.05	0.29	1.66	3.70	0.00	0.00	0.00	60.07	0.71	0.21	0.00	0.00	0.19	0.10	0.23	0.37	0.32	0.03	0.08	0.28	0.00	0.00	0.00	0.63	0.02	0.979	0.024
12	Wong Chuk Hang Road(flyover)	3	480	1.67	5.22	0.00	7.52	8.68	1.92	10.20	2.24	0.24	1.59	1.46	2.98	4.74	0.00	10.36	1.43	0.10	0.00	0.00	0.29	0.24	0.07	0.38	0.12	0.02	0.08	0.14	0.26	0.24	0.00	0.12	0.03	0.603	0.021
13	Wong Chuk Hang Road	2	275	0.47	4.92	0.00	2.72	3.12	0.00	0.00	16.24	0.26	0.00	3.29	6.69	10.63	20.65	246.18	0.63	0.04	0.00	0.00	0.17	0.09	0.00	0.00	1.30	0.03	0.00	0.25	0.44	0.52	0.17	2.56	0.01	3.158	0.056
14	Wong Chuk Hang Road	2	140	1.24	5.52	0.00	5.35	6.13	0.00	0.00	10.63	0.50	2.91	6.47	0.00	0.00	20.28	105.12	1.24	0.12	0.00	0.00	0.34	0.17	0.00	0.00	0.85	0.05	0.13	0.48	0.00	0.00	0.16	1.09	0.03	1.654	0.034
15	Wong Chuk Hang Road	2	615	1.80	6.28	0.00	7.31	9.77	1.80	9.39	4.84	0.34	1.32	2.94	2.99	4.75	4.62	43.08	1.13	0.17	0.00	0.00	0.46	0.27	0.09	0.45	0.39	0.03	0.06	0.22	0.20	0.23	0.04	0.45	0.03	1.024	0.031
16	Nam Long Shan Road	1	370	2.20	5.72	0.00	4.47	5.16	0.00	5.70	5.33	0.42	2.32	2.75	0.00	0.00	0.00	69.82	1.02	0.25	0.00	0.00	0.31	0.16	0.00	0.32	0.55	0.05	0.12	0.21	0.00	0.00	0.00	0.79	0.04	1.049	0.028
17	Heung Yip Road	1	85	2.53	4.98	0.00	9.73	11.22	0.00	0.00	0.00	0.92	5.05	0.00	0.00	0.00	0.00	0.00	2.23	0.29	0.00	0.00	0.67	0.35	0.00	0.00	0.00	0.11	0.25	0.00	0.00	0.00	0.00	0.00	0.08	0.367	0.017
18	Heung Yip Road	1	110	2.39	3.85	0.00	11.28	17.35	0.00	0.00	0.00	0.71	3.90	9.24	0.00	0.00	0.00	0.00	1.72	0.27	0.00	0.00	0.77	0.54	0.00	0.00	0.00	0.08	0.20	0.71	0.00	0.00	0.00	0.00	0.07	0.504	0.026
19	Heung Yip Road	1	150	2.39	4.23	0.00	11.03	12.72	0.00	14.06	0.00	1.04	2.86	6.78	0.00	0.00	0.00	0.00	1.26	0.27	0.00	0.00	0.75	0.39	0.00	0.79	0.00	0.12	0.14	0.52	0.00	0.00	0.00	0.00	0.05	0.564	0.030
20	Yip Fat St	1	65	2.57	3.25	0.00	12.73	14.68	0.00	0.00	0.00	1.20	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.87	0.45	0.00	0.00	0.00	0.14	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.410	0.021
21	Heung Yip Road	1	75	2.55	2.82	0.00	11.03	12.72	0.00	0.00	0.00	1.04	5.72	0.00	0.00	0.00	0.00	0.00	2.52	0.29	0.00	0.00	0.75	0.39	0.00	0.00	0.00	0.12	0.29	0.00	0.00	0.00	0.00	0.00	0.10	0.384	0.019
22	Yip Fat St	1	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
23	Yip Fat St	1	45	2.66	4.70	0.00	9.19	21.20	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.63	0.66	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.395	0.018
24	Heung Yip Road	1	75	2.55	2.82	0.00	11.03	12.72	0.00	0.00	0.00	1.04	5.72	0.00	0.00	0.00	0.00	0.00	2.52	0.29	0.00	0.00	0.75	0.39	0.00	0.00	0.00	0.12	0.29	0.00	0.00	0.00	0.00	0.00	0.10	0.384	0.019
25	Heung Yip Road	1	90	2.66	4.70	0.00	9.19	10.60	0.00	0.00	0.00	0.87	4.77	0.00	0.00	0.00	0.00	0.00	2.10	0.30	0.00	0.00	0.63	0.33	0.00	0.00	0.00	0.10	0.24	0.00	0.00	0.00	0.00	0.00	0.08	0.349	0.017
26	Heung Yip Road	1	105	2.73	6.04	0.00	7.88	9.09	0.00	0.00	0.00	0.74	4.09	0.00	0.00	0.00	0.00	0.00	1.80	0.31	0.00	0.00	0.54	0.28	0.00	0.00	0.00	0.09	0.21	0.00	0.00	0.00	0.00	0.00	0.07	0.324	0.015
27	Heung Yip Road	1	25	2.87	8.46	0.00	16.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.279	0.015
28	Heung Yip Road	1	40	2.99	5.29	0.00	10.34	23.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.71	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.425	0.018
29	Heung Yip Road	1	55	2.61	3.85	0.00	7.52	17.35	0.00	0.00	0.00	1.42	7.81	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.51	0.54	0.00	0.00	0.00	0.16	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.405	0.019
30	Nam Long Shan Road	1	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.34	0.00	0.00	0.00	0.00	0.00	0.00	322.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.07	0.00	0.00	0.00	0.00	0.00	0.00	3.66	0.00	3.723	0.087
31	Nam Long Shan Road	1	125	2.68	5.08	0.00	3.31	7.63	0.00	0.00	3.95	0.62	3.43	0.00	0.00	0.00	0.00	51.67	1.51	0.31	0.00	0.00	0.23	0.24	0.00	0.00	0.41	0.07	0.17	0.00	0.00	0.00	0.00	0.58	0.06	0.799	0.021
32	Nam Long Shan Road	1	120	2.59	5.29	0.00	3.45	7.95	0.00	0.00	4.11	0.65	3.58	0.00	0.00	0.00	0.00	53.82	1.58	0.30	0.00	0.00	0.24	0.25	0.00	0.00	0.42	0.08	0.18	0.00	0.00	0.00	0.00	0.61	0.06	0.830	0.021
33	Welfare Road	1	15	3.19	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.173	0.004
34	Welfare Road	1	5	4.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.048	0.005
35	Shum Wan Road	1	60	1.99	7.05	0.00	6.89	0.00	0.00	0.00	8.22	1.30	7.16	0.00	0.00	0.00	0.00	53.82	0.00	0.23	0.00	0.00	0.47	0.00	0.00	0.00	0.84	0.15	0.36	0.00	0.00	0.00	0.00	0.61	0.00	0.864	0.027
36	Shum Wan Road	1	60	1.99	7.05	0.00	6.89	0.00	0.00	0.00	8.22	1.30	7.16	0.00	0.00	0.00	0.00	53.82	0.00	0.23	0.00	0.00	0.47	0.00	0.00	0.00	0.84	0.15	0.36	0.00	0.00	0.00	0.00	0.61	0.00	0.864	0.027
37	Shum Wan Pier Drive	1	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
38	Nam Long Shan Road	1	125	2.68	5.08	0.00	3.31	7.63	0.00	0.00	3.95	0.62	3.43	0.00	0.00	0.00	0.00	51.67	1.51	0.31	0.00	0.00	0.23	0.24	0.00	0.00	0.41	0.07	0.17	0.00	0.00	0.00	0.00	0.58	0.06	0.799	0.021
39	Nam Long Shan Road	1	20	3.59	10.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.142	0.004
40	Nam Long Shan Road	1	20	3.59	10.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.142	0.004
41	Police School Road	1	120	2.59	5.29	0.00	3.45	7.95	0.00	0.00	4.11	0.65	3.58	0.00	0.00	0.00	0.00	53.82	1.58	0.30	0.00	0.00	0.24	0.25	0.00	0.00	0.42	0.08	0.18	0.00	0.00	0.00	0.00	0.61	0.06	0.830	0.021
42#	Police School Road		NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	#VALUE!	#VALUE!

Emission Factors from EMFAC (Type 1 Local Road - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0478	0.4230	0.0000	0.8273	1.9081	0.0000	4.2182	0.9869	0.1558	0.8586	2.0333	0.0000	0.0000	0.0000	6.4583	0.3785
RSP	0.0054	0.0000	0.0000	0.0566	0.0591	0.0000	0.2375	0.1013	0.0181	0.0431	0.1556	0.0000	0.0000	0.0000	0.0731	0.0143

Emission Factors from EMFAC (Type 2 Primary Distributor - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0433	0.3862	0.0000	0.7490	1.7159	2.2092	3.8517	0.9925	0.1404	0.8142	1.8109	3.6814	5.8448	5.6790	5.8870	0.3466
RSP	0.0040	0.0000	0.0000	0.0469	0.0476	0.1122	0.1831	0.0796	0.0141	0.0376	0.1353	0.2436	0.2834	0.0459	0.0613	0.0079

Emission Factors from EMFAC (Type 3 Primary Distributor - 70kph)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0356	0.3131	0.0000	0.7223	1.3895	1.8468	3.2644	1.0755	0.1173	0.7638	1.4021	2.8635	4.5529	0.0000	4.9707	0.3437
RSP	0.0021	0.0000	0.0000	0.0277	0.0379	0.0691	0.1226	0.0577	0.0078	0.0383	0.1362	0.2487	0.2334	0.0000	0.0558	0.0070

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 01-02)

Traffic (Hour: 01-02)

Hour: 01-02				Flow Rate (veh./hr)																% of Total Flow															
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
1	Yip Hing St	1	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	Tong Bin Lane	1	20	10	5	0	0	0	0	5	0	0	0	0	0	0	0	0	0	50.00	25.00	0.00	0.00	0.00	0.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	Tong Bin Lane (near J/Wong Chuk	1	30	15	5	0	5	0	0	5	0	0	0	0	0	0	0	0	0	50.00	16.67	0.00	16.67	0.00	0.00	16.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	Yip Kan St	1	30	15	5	0	5	0	0	5	0	0	0	0	0	0	0	0	0	50.00	16.67	0.00	16.67	0.00	0.00	16.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	Wong Chuk Hang Road	2	305	125	50	0	25	15	5	10	15	10	5	5	5	5	0	20	10	40.98	16.39	0.00	8.20	4.92	1.64	3.28	4.92	3.28	1.64	1.64	1.64	1.64	0.00	6.56	3.28
6	Wong Chuk Hang Road	2	345	145	55	0	30	20	5	10	15	10	5	5	5	5	0	25	10	42.03	15.94	0.00	8.70	5.80	1.45	2.90	4.35	2.90	1.45	1.45	1.45	1.45	0.00	7.25	2.90
7	Wong Chuk Hang Road	2	150	45	25	0	10	5	0	0	15	5	5	5	0	0	0	30	5	30.00	16.67	0.00	6.67	3.33	0.00	0.00	10.00	3.33	3.33	3.33	0.00	0.00	0.00	20.00	3.33
8	Wong Chuk Hang Road(flyover)	3	200	95	35	0	20	10	5	5	5	5	5	0	0	0	0	5	10	47.50	17.50	0.00	10.00	5.00	2.50	2.50	2.50	2.50	2.50	0.00	0.00	0.00	0.00	2.50	5.00
9	Wong Chuk Hang Road	2	210	105	30	0	10	5	0	5	5	5	5	5	5	5	0	25	0	50.00	14.29	0.00	4.76	2.38	0.00	2.38	2.38	2.38	2.38	2.38	2.38	2.38	0.00	11.90	0.00
10	Wong Chuk Hang Road	2	165	80	25	0	5	5	0	5	5	5	5	5	5	5	0	15	0	48.48	15.15	0.00	3.03	3.03	0.00	3.03	3.03	3.03	3.03	3.03	3.03	3.03	0.00	9.09	0.00
11	Wong Chuk Hang Road	2	130	65	20	0	5	5	0	5	5	5	0	5	0	0	0	15	0	50.00	15.38	0.00	3.85	3.85	0.00	3.85	3.85	3.85	0.00	3.85	0.00	0.00	0.00	11.54	0.00
12	Wong Chuk Hang Road(flyover)	3	245	115	40	0	25	15	5	10	5	5	5	5	0	0	0	5	10	46.94	16.33	0.00	10.20	6.12	2.04	4.08	2.04	2.04	2.04	2.04	0.00	0.00	0.00	2.04	4.08
13	Wong Chuk Hang Road	2	135	15	15	0	5	5	0	0	25	5	0	0	0	0	5	60	0	11.11	11.11	0.00	3.70	3.70	0.00	0.00	18.52	3.70	0.00	0.00	0.00	0.00	3.70	44.44	0.00
14	Wong Chuk Hang Road	2	65	20	10	0	5	5	0	0	10	0	0	0	0	0	0	15	0	30.77	15.38	0.00	7.69	7.69	0.00	0.00	15.38	0.00	0.00	0.00	0.00	0.00	0.00	23.08	0.00
15	Wong Chuk Hang Road	2	320	130	50	0	30	15	5	10	15	10	5	5	5	5	0	25	10	40.63	15.63	0.00	9.38	4.69	1.56	3.13	4.69	3.13	1.56	1.56	1.56	1.56	0.00	7.81	3.13
16	Nam Long Shan Road	1	190	85	25	0	10	5	0	5	10	5	5	5	5	5	0	20	5	44.74	13.16	0.00	5.26	2.63	0.00	2.63	5.26	2.63	2.63	2.63	2.63	2.63	0.00	10.53	2.63
17	Heung Yip Road	1	85	45	10	0	10	5	0	0	0	5	5	0	0	0	0	0	5	52.94	11.76	0.00	11.76	5.88	0.00	0.00	0.00	5.88	5.88	0.00	0.00	0.00	0.00	0.00	5.88
18	Heung Yip Road	1	115	60	10	0	15	10	0	0	0	5	5	5	0	0	0	0	5	52.17	8.70	0.00	13.04	8.70	0.00	0.00	0.00	4.35	4.35	4.35	0.00	0.00	0.00	0.00	4.35
19	Heung Yip Road	1	150	75	15	0	20	10	0	5	0	10	5	5	0	0	0	0	5	50.00	10.00	0.00	13.33	6.67	0.00	3.33	0.00	6.67	3.33	3.33	0.00	0.00	0.00	0.00	3.33
20	Yip Fat St	1	65	35	5	0	10	5	0	0	0	5	5	0	0	0	0	0	0	53.85	7.69	0.00	15.38	7.69	0.00	0.00	0.00	7.69	7.69	0.00	0.00	0.00	0.00	0.00	0.00
21	Heung Yip Road	1	75	40	5	0	10	5	0	0	0	5	5	0	0	0	0	0	5	53.33	6.67	0.00	13.33	6.67	0.00	0.00	0.00	6.67	6.67	0.00	0.00	0.00	0.00	0.00	6.67
22	Yip Fat St	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	Yip Fat St	1	45	25	5	0	5	5	0	0	0	5	0	0	0	0	0	0	0	55.56	11.11	0.00	11.11	11.11	0.00	0.00	0.00	11.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	Heung Yip Road	1	75	40	5	0	10	5	0	0	0	5	5	0	0	0	0	0	5	53.33	6.67	0.00	13.33	6.67	0.00	0.00	0.00	6.67	6.67	0.00	0.00	0.00	0.00	0.00	6.67
25	Heung Yip Road	1	90	50	10	0	10	5	0	0	0	5	5	0	0	0	0	0	5	55.56	11.11	0.00	11.11	5.56	0.00	0.00	0.00	5.56	5.56	0.00	0.00	0.00	0.00	0.00	5.56
26	Heung Yip Road	1	110	65	15	0	10	5	0	0	0	5	5	0	0	0	0	0	5	59.09	13.64	0.00	9.09	4.55	0.00	0.00	0.00	4.55	4.55	0.00	0.00	0.00	0.00	0.00	4.55
27	Heung Yip Road	1	30	20	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	66.67	16.67	0.00	16.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	Heung Yip Road	1	40	25	5	0	5	5	0	0	0	0	0	0	0	0	0	0	0	62.50	12.50	0.00	12.50	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	Heung Yip Road	1	55	30	5	0	5	5	0	0	0	5	5	0	0	0	0	0	0	54.55	9.09	0.00	9.09	9.09	0.00	0.00	0.00	9.09	9.09	0.00	0.00	0.00	0.00	0.00	0.00
30	Nam Long Shan Road	1	10	0	0	0	0	0	0	0	5	0	0	0	0	0	0	5	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	50.00	0.00
31	Nam Long Shan Road	1	120	70	15	0	5	5	0	0	5	5	5	0	0	0	0	5	5	58.33	12.50	0.00	4.17	4.17	0.00	0.00	4.17	4.17	4.17	0.00	0.00	0.00	0.00	4.17	4.17
32	Nam Long Shan Road	1	120	70	15	0	5	5	0	0	5	5	5	0	0	0	0	5	5	58.33	12.50	0.00	4.17	4.17	0.00	0.00	4.17	4.17	4.17	0.00	0.00	0.00	0.00	4.17	4.17
33	Welfare Road	1	15	10	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66.67	33.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	Welfare Road	1	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	Shum Wan Road	1	60	25	10	0	5	0	0	0	5	5	5	0	0	0	0	5	0	41.67	16.67	0.00	8.33	0.00	0.00	0.00	8.33	8.33	8.33	0.00	0.00	0.00	0.00	8.33	0.00
36	Shum Wan Road	1	65	30	10	0	5	0	0	0	5	5	5	0	0	0	0	5	0	46.15	15.38	0.00	7.69	0.00	0.00	0.00	7.69	7.69	7.69	0.00	0.00	0.00	0.00	7.69	0.00
37	Shum Wan Pier Drive	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38	Nam Long Shan Road	1	125	75	15	0	5	5	0	0	5	5	5	0	0	0	0	5	5	60.00	12.00	0.00	4.00	4.00	0.00	0.00	4.00	4.00	4.00	0.00	0.00	0.00	0.00	4.00	4.00
39	Nam Long Shan Road	1	20	15	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40	Nam Long Shan Road	1	25	20	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
41	Police School Road	1	120	70	15	0	5	5	0	0	5	5	5	0	0	0	0	5	5	58.33	12.50	0.00	4.17	4.17	0.00	0.00	4.17	4.17	4.17	0.00	0.00	0.00	0.00	4.17	4.17
42#	Police School Road		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 01-02)

Emission Factor Calculations (Hour: 00-01)

Hour: 01-02				% of Total Flow x Emission Factor (NOx)																	% of Total Flow x Emission Factor (RSP)																	Composite Emission Factor (g/veh·km)	
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	NOx	RSP
1	Yip Hing St	1	5	4.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.048	0.005
2	Tong Bin Lane	1	20	2.40	10.61	0.00	0.00	0.00	0.00	105.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.00	5.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.185	0.062
3	Tong Bin Lane (near J/Wong Chuk	1	30	2.40	7.08	0.00	13.81	0.00	0.00	70.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.94	0.00	0.00	3.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.936	0.052
4	Yip Kan St	1	30	2.40	7.08	0.00	13.81	0.00	0.00	70.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.94	0.00	0.00	3.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.936	0.052
5	Wong Chuk Hang Road	2	305	1.78	6.35	0.00	6.15	8.45	3.63	12.64	4.89	0.46	1.34	2.97	6.04	9.59	0.00	38.65	1.14	0.17	0.00	0.00	0.38	0.23	0.18	0.60	0.39	0.05	0.06	0.22	0.40	0.46	0.00	0.40	0.03	1.041	0.036
6	Wong Chuk Hang Road	2	345	1.83	6.17	0.00	6.52	9.96	3.21	11.18	4.33	0.41	1.18	2.63	5.34	8.48	0.00	42.71	1.01	0.17	0.00	0.00	0.41	0.28	0.16	0.53	0.35	0.04	0.05	0.20	0.35	0.41	0.00	0.44	0.02	1.050	0.034
7	Wong Chuk Hang Road	2	150	1.30	6.46	0.00	5.00	5.73	0.00	0.00	9.95	0.47	2.72	6.04	0.00	0.00	0.00	117.89	1.16	0.12	0.00	0.00	0.31	0.16	0.00	0.00	0.80	0.05	0.13	0.45	0.00	0.00	0.00	1.23	0.03	1.567	0.033
8	Wong Chuk Hang Road(flyover)	3	200	1.70	5.49	0.00	7.23	6.96	4.62	8.17	2.70	0.29	1.91	0.00	0.00	0.00	0.00	12.44	1.72	0.10	0.00	0.00	0.28	0.19	0.17	0.31	0.14	0.02	0.10	0.00	0.00	0.00	0.00	0.14	0.03	0.532	0.015
9	Wong Chuk Hang Road	2	210	2.17	5.53	0.00	3.57	4.09	0.00	9.18	2.37	0.34	1.94	4.32	8.78	13.93	0.00	70.17	0.00	0.20	0.00	0.00	0.22	0.11	0.00	0.44	0.19	0.03	0.09	0.32	0.58	0.67	0.00	0.73	0.00	1.264	0.036
10	Wong Chuk Hang Road	2	165	2.11	5.87	0.00	2.27	5.21	0.00	11.69	3.02	0.43	2.47	5.49	11.17	17.73	0.00	53.59	0.00	0.20	0.00	0.00	0.14	0.14	0.00	0.55	0.24	0.04	0.11	0.41	0.74	0.86	0.00	0.56	0.00	1.210	0.040
11	Wong Chuk Hang Road	2	130	2.17	5.96	0.00	2.88	6.61	0.00	14.83	3.83	0.54	0.00	6.97	0.00	0.00	0.00	68.01	0.00	0.20	0.00	0.00	0.18	0.18	0.00	0.70	0.31	0.05	0.00	0.52	0.00	0.00	0.00	0.71	0.00	1.118	0.029
12	Wong Chuk Hang Road(flyover)	3	245	1.68	5.13	0.00	7.38	8.52	3.77	13.34	2.20	0.24	1.56	2.87	0.00	0.00	0.00	10.16	1.41	0.10	0.00	0.00	0.28	0.23	0.14	0.50	0.12	0.02	0.08	0.28	0.00	0.00	0.00	0.11	0.03	0.583	0.019
13	Wong Chuk Hang Road	2	135	0.48	4.30	0.00	2.78	6.36	0.00	0.00	18.43	0.52	0.00	0.00	0.00	0.00	21.06	261.98	0.00	0.04	0.00	0.00	0.17	0.18	0.00	0.00	1.47	0.05	0.00	0.00	0.00	0.00	0.17	2.72	0.00	3.159	0.048
14	Wong Chuk Hang Road	2	65	1.34	5.96	0.00	5.77	13.22	0.00	0.00	15.31	0.00	0.00	0.00	0.00	0.00	0.00	136.03	0.00	0.12	0.00	0.00	0.36	0.37	0.00	0.00	1.22	0.00	0.00	0.00	0.00	0.00	0.00	1.41	0.00	1.776	0.035
15	Wong Chuk Hang Road	2	320	1.76	6.05	0.00	7.03	8.05	3.46	12.05	4.66	0.44	1.27	2.83	5.76	9.14	0.00	46.05	1.09	0.16	0.00	0.00	0.44	0.22	0.18	0.57	0.37	0.04	0.06	0.21	0.38	0.44	0.00	0.48	0.02	1.097	0.036
16	Nam Long Shan Road	1	190	2.15	5.59	0.00	4.36	5.02	0.00	11.10	5.22	0.41	2.26	5.35	0.00	0.00	0.00	68.04	0.99	0.24	0.00	0.00	0.30	0.16	0.00	0.62	0.53	0.05	0.11	0.41	0.00	0.00	0.00	0.77	0.04	1.105	0.032
17	Heung Yip Road	1	85	2.55	4.99	0.00	9.75	11.22	0.00	0.00	0.00	0.92	5.06	0.00	0.00	0.00	0.00	0.00	2.20	0.29	0.00	0.00	0.67	0.35	0.00	0.00	0.00	0.11	0.25	0.00	0.00	0.00	0.00	0.00	0.08	0.367	0.017
18	Heung Yip Road	1	115	2.51	3.69	0.00	10.81	16.59	0.00	0.00	0.00	0.68	3.74	8.84	0.00	0.00	0.00	0.00	1.63	0.28	0.00	0.00	0.74	0.51	0.00	0.00	0.00	0.08	0.19	0.68	0.00	0.00	0.00	0.00	0.06	0.485	0.025
19	Heung Yip Road	1	150	2.40	4.25	0.00	11.05	12.72	0.00	14.06	0.00	1.04	2.87	6.78	0.00	0.00	0.00	0.00	1.25	0.27	0.00	0.00	0.75	0.39	0.00	0.79	0.00	0.12	0.14	0.52	0.00	0.00	0.00	0.00	0.05	0.564	0.030
20	Yip Fat St	1	65	2.59	3.27	0.00	12.75	14.67	0.00	0.00	0.00	1.21	6.61	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.87	0.45	0.00	0.00	0.00	0.14	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.411	0.021
21	Heung Yip Road	1	75	2.57	2.83	0.00	11.05	12.72	0.00	0.00	0.00	1.04	5.73	0.00	0.00	0.00	0.00	0.00	2.50	0.29	0.00	0.00	0.75	0.39	0.00	0.00	0.00	0.12	0.29	0.00	0.00	0.00	0.00	0.00	0.10	0.384	0.019
22	Yip Fat St	1	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
23	Yip Fat St	1	45	2.67	4.72	0.00	9.21	21.19	0.00	0.00	0.00	1.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.63	0.66	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.395	0.018
24	Heung Yip Road	1	75	2.57	2.83	0.00	11.05	12.72	0.00	0.00	0.00	1.04	5.73	0.00	0.00	0.00	0.00	0.00	2.50	0.29	0.00	0.00	0.75	0.39	0.00	0.00	0.00	0.12	0.29	0.00	0.00	0.00	0.00	0.00	0.10	0.384	0.019
25	Heung Yip Road	1	90	2.67	4.72	0.00	9.21	10.60	0.00	0.00	0.00	0.87	4.78	0.00	0.00	0.00	0.00	0.00	2.08	0.30	0.00	0.00	0.63	0.33	0.00	0.00	0.00	0.10	0.24	0.00	0.00	0.00	0.00	0.00	0.08	0.349	0.017
26	Heung Yip Road	1	110	2.84	5.79	0.00	7.53	8.67	0.00	0.00	0.00	0.71	3.91	0.00	0.00	0.00	0.00	0.00	1.70	0.32	0.00	0.00	0.51	0.27	0.00	0.00	0.00	0.08	0.20	0.00	0.00	0.00	0.00	0.00	0.07	0.312	0.014
27	Heung Yip Road	1	30	3.21	7.08	0.00	13.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.241	0.013
28	Heung Yip Road	1	40	3.01	5.31	0.00	10.36	23.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.71	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.425	0.018
29	Heung Yip Road	1	55	2.62	3.86	0.00	7.53	17.34	0.00	0.00	0.00	1.42	7.82	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.51	0.54	0.00	0.00	0.00	0.16	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.406	0.019
30	Nam Long Shan Road	1	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.63	0.00	0.00	0.00	0.00	0.00	0.00	323.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.07	0.00	0.00	0.00	0.00	0.00	0.00	3.66	0.00	3.728	0.087
31	Nam Long Shan Road	1	120	2.81	5.31	0.00	3.45	7.95	0.00	0.00	4.14	0.65	3.58	0.00	0.00	0.00	0.00	26.93	1.56	0.32	0.00	0.00	0.24	0.25	0.00	0.00	0.42	0.08	0.18	0.00	0.00	0.00	0.00	0.30	0.06	0.564	0.018
32	Nam Long Shan Road	1	120	2.81	5.31	0.00	3.45	7.95	0.00	0.00	4.14	0.65	3.58	0.00	0.00	0.00	0.00	26.93	1.56	0.32	0.00	0.00	0.24	0.25	0.00	0.00	0.42	0.08	0.18	0.00	0.00	0.00	0.00	0.30	0.06	0.564	0.018
33	Welfare Road	1	15	3.21	14.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.174	0.004
34	Welfare Road	1	5	4.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.048	0.005
35	Shum Wan Road	1	60	2.00	7.08	0.00	6.90	0.00	0.00	0.00	8.27	1.31	7.17	0.00	0.00	0.00	0.00	53.87	0.00	0.23	0.00	0.00	0.47	0.00	0.00	0.00	0.84	0.15	0.36	0.00	0.00	0.00	0.00	0.61	0.00	0.866	0.027
36	Shum Wan Road	1	65	2.22	6.53	0.00	6.37	0.00	0.00	0.00	7.64	1.21	6.61	0.00	0.00	0.00	0.00	49.72	0.00	0.25	0.00	0.00	0.44	0.00	0.00	0.00	0.78	0.14	0.33	0.00	0.00	0.00	0.00	0.56	0.00	0.803	0.025
37	Shum Wan Pier Drive	1	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
38	Nam Long Shan Road	1	125	2.89	5.09	0.00	3.31	7.63	0.00	0.00	3.97	0.63	3.44	0.00	0.00	0.00	0.00	25.86	1.50	0.33	0.00	0.00	0.23	0.24	0.00	0.00	0.41	0.07	0.17	0.00	0.00	0.00	0.00	0.29	0.06	0.543	0.018
39	Nam Long Shan Road	1	20	3.61	10.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.142	0.004
40	Nam Long Shan Road	1	25	3.85	8.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.123	0.004
41	Police School Road	1	120	2.81	5.31	0.00	3.45	7.95	0.00	0.00	4.14	0.65	3.58	0.00	0.00	0.00	0.00	26.93	1.56	0.32	0.00	0.00	0.24	0.25	0.00	0.00	0.42	0.08	0.18	0.00	0.00	0.00	0.00	0.30	0.06	0.564	0.018
42#	Police School Road		NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	#VALUE!	#VALUE!

Emission Factors from EMFAC (Type 1 Local Road - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0481	0.4246	0.0000	0.8285	1.9073	0.0000	4.2182	0.9926	0.1567	0.8598	2.0333	0.0000	0.0000	0.0000	6.4642	0.3747
RSP	0.0054	0.0000	0.0000	0.0566	0.0591	0.0000	0.2375	0.1013	0.0181	0.0431	0.1556	0.0000	0.0000	0.0000	0.0731	0.0143

Emission Factors from EMFAC (Type 2 Primary Distributor - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0434	0.3873	0.0000	0.7500	1.7181	2.2121	3.8566	0.9951	0.1409	0.8158	1.8132	3.6861	5.8523	5.6863	5.8945	0.3477
RSP	0.0040	0.0000	0.0000	0.0469	0.0476	0.1122	0.1831	0.0796	0.0141	0.0376	0.1353	0.2436	0.2834	0.0459	0.0613	0.0079

Emission Factors from EMFAC (Type 3 Primary Distributor - 70kph)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0357	0.3140	0.0000	0.7233	1.3913	1.8492	3.2685	1.0784	0.1177	0.7655	1.4039	0.0000	0.0000	0.0000	4.9771	0.3448
RSP	0.0021	0.0000	0.0000	0.0277	0.0379	0.0691	0.1226	0.0577	0.0078	0.0383	0.1362	0.0000	0.0000	0.0000	0.0558	0.0070

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 02-03)

Traffic (Hour: 02-03)

Hour: 02-03				Flow Rate (veh./hr)																% of Total Flow															
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
1	Yip Hing St	1	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	Tong Bin Lane	1	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	Tong Bin Lane (near J/Wong Chuk	1	15	5	5	0	0	0	0	5	0	0	0	0	0	0	0	0	0	33.33	33.33	0.00	0.00	0.00	0.00	33.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	Yip Kan St	1	20	10	5	0	0	0	0	5	0	0	0	0	0	0	0	0	0	50.00	25.00	0.00	0.00	0.00	0.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	Wong Chuk Hang Road	2	290	130	50	0	25	15	0	5	15	10	5	5	0	0	0	20	10	44.83	17.24	0.00	8.62	5.17	0.00	1.72	5.17	3.45	1.72	1.72	0.00	0.00	0.00	6.90	3.45
6	Wong Chuk Hang Road	2	330	145	55	0	30	20	0	10	15	10	5	5	0	0	0	25	10	43.94	16.67	0.00	9.09	6.06	0.00	3.03	4.55	3.03	1.52	1.52	0.00	0.00	0.00	7.58	3.03
7	Wong Chuk Hang Road	2	145	45	20	0	10	5	0	0	15	5	5	5	0	0	0	30	5	31.03	13.79	0.00	6.90	3.45	0.00	0.00	10.34	3.45	3.45	3.45	0.00	0.00	0.00	20.69	3.45
8	Wong Chuk Hang Road(flyover)	3	190	95	35	0	20	10	0	5	5	5	5	0	0	0	0	5	5	50.00	18.42	0.00	10.53	5.26	0.00	2.63	2.63	2.63	2.63	0.00	0.00	0.00	0.00	2.63	2.63
9	Wong Chuk Hang Road	2	205	110	30	0	10	5	0	5	5	5	5	5	0	0	0	25	0	53.66	14.63	0.00	4.88	2.44	0.00	2.44	2.44	2.44	2.44	2.44	0.00	0.00	0.00	12.20	0.00
10	Wong Chuk Hang Road	2	145	80	25	0	5	5	0	5	5	5	0	0	0	0	0	15	0	55.17	17.24	0.00	3.45	3.45	0.00	3.45	3.45	3.45	0.00	0.00	0.00	0.00	0.00	10.34	0.00
11	Wong Chuk Hang Road	2	120	65	20	0	5	5	0	5	5	0	0	0	0	0	0	15	0	54.17	16.67	0.00	4.17	4.17	0.00	4.17	4.17	0.00	0.00	0.00	0.00	0.00	0.00	12.50	0.00
12	Wong Chuk Hang Road(flyover)	3	230	115	40	0	25	15	0	5	5	5	5	0	0	0	0	5	10	50.00	17.39	0.00	10.87	6.52	0.00	2.17	2.17	2.17	2.17	0.00	0.00	0.00	0.00	2.17	4.35
13	Wong Chuk Hang Road	2	130	15	15	0	5	5	0	0	25	5	0	0	0	0	5	55	0	11.54	11.54	0.00	3.85	3.85	0.00	0.00	19.23	3.85	0.00	0.00	0.00	0.00	3.85	42.31	0.00
14	Wong Chuk Hang Road	2	55	20	10	0	5	0	0	0	10	0	0	0	0	0	0	10	0	36.36	18.18	0.00	9.09	0.00	0.00	0.00	18.18	0.00	0.00	0.00	0.00	0.00	0.00	18.18	0.00
15	Wong Chuk Hang Road	2	300	130	50	0	30	15	0	5	15	10	5	5	0	0	0	25	10	43.33	16.67	0.00	10.00	5.00	0.00	1.67	5.00	3.33	1.67	1.67	0.00	0.00	0.00	8.33	3.33
16	Nam Long Shan Road	1	185	90	25	0	10	5	0	5	10	5	5	5	0	0	0	20	5	48.65	13.51	0.00	5.41	2.70	0.00	2.70	5.41	2.70	2.70	2.70	0.00	0.00	0.00	10.81	2.70
17	Heung Yip Road	1	45	25	5	0	5	5	0	0	0	5	0	0	0	0	0	0	0	55.56	11.11	0.00	11.11	11.11	0.00	0.00	0.00	11.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	Heung Yip Road	1	55	30	5	0	5	5	0	0	0	5	5	0	0	0	0	0	0	54.55	9.09	0.00	9.09	9.09	0.00	0.00	0.00	9.09	9.09	0.00	0.00	0.00	0.00	0.00	0.00
19	Heung Yip Road	1	75	40	5	0	10	5	0	0	0	5	5	0	0	0	0	0	5	53.33	6.67	0.00	13.33	6.67	0.00	0.00	0.00	6.67	6.67	0.00	0.00	0.00	0.00	0.00	6.67
20	Yip Fat St	1	30	20	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	66.67	16.67	0.00	16.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	Heung Yip Road	1	35	20	5	0	5	5	0	0	0	0	0	0	0	0	0	0	0	57.14	14.29	0.00	14.29	14.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	Yip Fat St	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	Yip Fat St	1	20	15	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	75.00	0.00	0.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	Heung Yip Road	1	35	20	5	0	5	5	0	0	0	0	0	0	0	0	0	0	0	57.14	14.29	0.00	14.29	14.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	Heung Yip Road	1	35	25	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	71.43	14.29	0.00	14.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	Heung Yip Road	1	55	35	5	0	5	5	0	0	0	5	0	0	0	0	0	0	0	63.64	9.09	0.00	9.09	9.09	0.00	0.00	0.00	9.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	Heung Yip Road	1	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	Heung Yip Road	1	15	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	Heung Yip Road	1	25	15	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	60.00	20.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	Nam Long Shan Road	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00
31	Nam Long Shan Road	1	55	35	10	0	5	0	0	0	0	0	0	0	0	0	0	5	0	63.64	18.18	0.00	9.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.09	0.00
32	Nam Long Shan Road	1	55	35	10	0	5	0	0	0	0	0	0	0	0	0	0	5	0	63.64	18.18	0.00	9.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.09	0.00
33	Welfare Road	1	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	Welfare Road	1	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	Shum Wan Road	1	15	10	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66.67	33.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36	Shum Wan Road	1	15	10	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66.67	33.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37	Shum Wan Pier Drive	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38	Nam Long Shan Road	1	60	40	10	0	5	0	0	0	0	0	0	0	0	0	0	5	0	66.67	16.67	0.00	8.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.33	0.00
39	Nam Long Shan Road	1	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40	Nam Long Shan Road	1	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
41	Police School Road	1	55	35	10	0	5	0	0	0	0	0	0	0	0	0	0	5	0	63.64	18.18	0.00	9.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.09	0.00
42#	Police School Road		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 02-03)

Emission Factor Calculations (Hour: 00-01)

Hour: 02-03				% of Total Flow x Emission Factor (NOx)																	% of Total Flow x Emission Factor (RSP)																		Composite Emission Factor (g/veh·km)	
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	NOx	RSP
1	Yip Hing St	1	5	4.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.048	0.005
2	Tong Bin Lane	1	5	4.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.048	0.005
3	Tong Bin Lane (near J/Wong Chuk	1	15	1.61	14.18	0.00	0.00	0.00	0.00	140.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	7.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.567	0.081
4	Yip Kan St	1	20	2.41	10.64	0.00	0.00	0.00	0.00	105.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.00	5.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.188	0.062
5	Wong Chuk Hang Road	2	290	1.96	6.70	0.00	6.48	8.91	0.00	6.66	5.17	0.49	1.41	3.13	0.00	0.00	0.00	40.74	1.20	0.18	0.00	0.00	0.40	0.25	0.00	0.32	0.41	0.05	0.06	0.23	0.00	0.00	0.00	0.42	0.03	0.828	0.024
6	Wong Chuk Hang Road	2	330	1.92	6.48	0.00	6.83	10.43	0.00	11.71	4.54	0.43	1.24	2.75	0.00	0.00	0.00	44.75	1.06	0.18	0.00	0.00	0.43	0.29	0.00	0.55	0.36	0.04	0.06	0.20	0.00	0.00	0.00	0.46	0.02	0.921	0.026
7	Wong Chuk Hang Road	2	145	1.35	5.36	0.00	5.18	5.94	0.00	0.00	10.33	0.49	2.82	6.27	0.00	0.00	0.00	122.21	1.20	0.13	0.00	0.00	0.32	0.16	0.00	0.00	0.82	0.05	0.13	0.47	0.00	0.00	0.00	1.27	0.03	1.612	0.034
8	Wong Chuk Hang Road(flyover)	3	190	1.79	5.81	0.00	7.63	7.34	0.00	8.62	2.85	0.31	2.02	0.00	0.00	0.00	0.00	13.12	0.91	0.10	0.00	0.00	0.29	0.20	0.00	0.32	0.15	0.02	0.10	0.00	0.00	0.00	0.00	0.15	0.02	0.504	0.014
9	Wong Chuk Hang Road	2	205	2.34	5.69	0.00	3.67	4.20	0.00	9.43	2.44	0.35	2.00	4.43	0.00	0.00	0.00	72.03	0.00	0.22	0.00	0.00	0.23	0.12	0.00	0.45	0.19	0.03	0.09	0.33	0.00	0.00	0.00	0.75	0.00	1.066	0.024
10	Wong Chuk Hang Road	2	145	2.41	6.70	0.00	2.59	5.94	0.00	13.33	3.44	0.49	0.00	0.00	0.00	0.00	0.00	61.10	0.00	0.22	0.00	0.00	0.16	0.16	0.00	0.63	0.27	0.05	0.00	0.00	0.00	0.00	0.00	0.63	0.00	0.960	0.021
11	Wong Chuk Hang Road	2	120	2.36	6.48	0.00	3.13	7.17	0.00	16.10	4.16	0.00	0.00	0.00	0.00	0.00	0.00	73.83	0.00	0.22	0.00	0.00	0.20	0.20	0.00	0.76	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.77	0.00	1.132	0.025
12	Wong Chuk Hang Road(flyover)	3	230	1.79	5.48	0.00	7.88	9.09	0.00	7.12	2.35	0.26	1.67	0.00	0.00	0.00	0.00	10.84	1.51	0.10	0.00	0.00	0.30	0.25	0.00	0.27	0.13	0.02	0.08	0.00	0.00	0.00	0.00	0.12	0.03	0.480	0.013
13	Wong Chuk Hang Road	2	130	0.50	4.49	0.00	2.89	6.62	0.00	0.00	19.21	0.54	0.00	0.00	0.00	0.00	21.92	249.90	0.00	0.05	0.00	0.00	0.18	0.18	0.00	0.00	1.53	0.05	0.00	0.00	0.00	0.00	0.18	2.59	0.00	3.061	0.048
14	Wong Chuk Hang Road	2	55	1.59	7.07	0.00	6.83	0.00	0.00	0.00	18.16	0.00	0.00	0.00	0.00	0.00	0.00	107.39	0.00	0.15	0.00	0.00	0.43	0.00	0.00	0.00	1.45	0.00	0.00	0.00	0.00	0.00	0.00	1.11	0.00	1.410	0.031
15	Wong Chuk Hang Road	2	300	1.89	6.48	0.00	7.52	8.61	0.00	6.44	4.99	0.47	1.36	3.03	0.00	0.00	0.00	49.22	1.16	0.18	0.00	0.00	0.47	0.24	0.00	0.31	0.40	0.05	0.06	0.23	0.00	0.00	0.00	0.51	0.03	0.912	0.025
16	Nam Long Shan Road	1	185	2.34	5.75	0.00	4.49	5.17	0.00	11.43	0.00	0.41	2.34	0.00	0.00	0.00	0.00	70.05	0.00	0.27	0.00	0.00	0.31	0.16	0.00	0.64	0.00	0.05	0.12	0.00	0.00	0.00	0.00	0.79	0.00	1.020	0.023
17	Heung Yip Road	1	45	2.68	4.73	0.00	9.24	21.26	0.00	0.00	0.00	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.63	0.66	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.396	0.018
18	Heung Yip Road	1	55	2.63	3.87	0.00	7.56	17.39	0.00	0.00	0.00	1.37	7.88	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.51	0.54	0.00	0.00	0.00	0.16	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.407	0.019
19	Heung Yip Road	1	75	2.57	2.84	0.00	11.08	12.75	0.00	0.00	0.00	1.00	5.78	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.75	0.39	0.00	0.00	0.00	0.12	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.360	0.018
20	Yip Fat St	1	30	3.21	7.09	0.00	13.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.242	0.013
21	Heung Yip Road	1	35	2.75	6.08	0.00	11.88	27.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.81	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.480	0.020
22	Yip Fat St	1	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
23	Yip Fat St	1	20	3.61	0.00	0.00	20.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.244	0.018
24	Heung Yip Road	1	35	2.75	6.08	0.00	11.88	27.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.81	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.480	0.020
25	Heung Yip Road	1	35	3.44	6.08	0.00	11.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.214	0.012
26	Heung Yip Road	1	55	3.07	3.87	0.00	7.56	17.39	0.00	0.00	0.00	1.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.51	0.54	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.333	0.016
27	Heung Yip Road	1	10	4.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.048	0.005
28	Heung Yip Road	1	15	4.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.048	0.005
29	Heung Yip Road	1	25	2.89	8.51	0.00	16.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.280	0.015
30	Nam Long Shan Road	1	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	647.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.31	0.00	6.480	0.073
31	Nam Long Shan Road	1	55	3.07	7.74	0.00	7.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	58.91	0.00	0.35	0.00	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00	0.773	0.015
32	Nam Long Shan Road	1	55	3.07	7.74	0.00	7.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	58.91	0.00	0.35	0.00	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00	0.773	0.015
33	Welfare Road	1	5	4.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.048	0.005
34	Welfare Road	1	5	4.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.048	0.005
35	Shum Wan Road	1	15	3.21	14.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.174	0.004
36	Shum Wan Road	1	15	3.21	14.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.174	0.004
37	Shum Wan Pier Drive	1	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
38	Nam Long Shan Road	1	60	3.21	7.09	0.00	6.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.00	0.00	0.36	0.00	0.00	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.00	0.712	0.014
39	Nam Long Shan Road	1	10	4.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.048	0.005
40	Nam Long Shan Road	1	10	4.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.048	0.005
41	Police School Road	1	55	3.07	7.74	0.00	7.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	58.91	0.00	0.35	0.00	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00	0.773	0.015
42#	Police School Road		NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	#VALUE!	#VALUE!

Emission Factors from EMFAC (Type 1 Local Road - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0482	0.4255	0.0000	0.8313	1.9130	0.0000	4.2286	0.0000	0.1506	0.8667	0.0000	0.0000	0.0000	0.0000	6.4796	0.0000
RSP	0.0054	0.0000	0.0000	0.0566	0.0591	0.0000	0.2375	0.0000	0.0181	0.0431	0.0000	0.0000	0.0000	0.0000	0.0731	0.0000

Emission Factors from EMFAC (Type 2 Primary Distributor - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0436	0.3889	0.0000	0.7515	1.7217	0.0000	3.8646	0.9989	0.1415	0.8184	1.8169	0.0000	0.0000	5.6980	5.9066	0.3493
RSP	0.0040	0.0000	0.0000	0.0469	0.0476	0.0000	0.1831	0.0796	0.0141	0.0376	0.1353	0.0000	0.0000	0.0459	0.0613	0.0079

Emission Factors from EMFAC (Type 3 Primary Distributor - 70kph)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0359	0.3152	0.0000	0.7248	1.3942	0.0000	3.2753	1.0826	0.1182	0.7681	0.0000	0.0000	0.0000	0.0000	4.9873	0.3464
RSP	0.0021	0.0000	0.0000	0.0277	0.0379	0.0000	0.1226	0.0577	0.0078	0.0383	0.0000	0.0000	0.0000	0.0000	0.0558	0.0070

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 03-04)

Traffic (Hour: 03-04)

Hour: 03-04				Flow Rate (veh./hr)																% of Total Flow																
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
1	Yip Hing St	1	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	Tong Bin Lane	1	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	Tong Bin Lane (near J/Wong Chuk	1	15	5	5	0	0	0	0	5	0	0	0	0	0	0	0	0	0	33.33	33.33	0.00	0.00	0.00	0.00	33.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	Yip Kan St	1	20	10	5	0	0	0	0	5	0	0	0	0	0	0	0	0	0	50.00	25.00	0.00	0.00	0.00	0.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	Wong Chuk Hang Road	2	295	130	50	0	25	15	0	5	15	10	5	5	0	0	0	25	10	44.07	16.95	0.00	8.47	5.08	0.00	1.69	5.08	3.39	1.69	1.69	0.00	0.00	0.00	8.47	3.39
6	Wong Chuk Hang Road	2	330	150	60	0	30	15	0	5	15	10	5	5	0	0	0	25	10	45.45	18.18	0.00	9.09	4.55	0.00	1.52	4.55	3.03	1.52	1.52	0.00	0.00	0.00	7.58	3.03
7	Wong Chuk Hang Road	2	145	45	20	0	10	5	0	0	15	5	5	5	0	0	0	30	5	31.03	13.79	0.00	6.90	3.45	0.00	0.00	10.34	3.45	3.45	3.45	0.00	0.00	0.00	20.69	3.45
8	Wong Chuk Hang Road(flyover)	3	190	95	35	0	20	10	0	5	5	5	5	0	0	0	0	5	5	50.00	18.42	0.00	10.53	5.26	0.00	2.63	2.63	2.63	2.63	0.00	0.00	0.00	0.00	2.63	2.63
9	Wong Chuk Hang Road	2	210	110	35	0	10	5	0	5	5	5	5	5	0	0	0	25	0	52.38	16.67	0.00	4.76	2.38	0.00	2.38	2.38	2.38	2.38	2.38	0.00	0.00	0.00	11.90	0.00
10	Wong Chuk Hang Road	2	155	85	25	0	5	5	0	5	5	5	0	0	0	0	0	20	0	54.84	16.13	0.00	3.23	3.23	0.00	3.23	3.23	3.23	0.00	0.00	0.00	0.00	0.00	12.90	0.00
11	Wong Chuk Hang Road	2	125	70	20	0	5	5	0	5	5	0	0	0	0	0	0	15	0	56.00	16.00	0.00	4.00	4.00	0.00	4.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	12.00	0.00
12	Wong Chuk Hang Road(flyover)	3	240	120	45	0	25	15	0	5	5	5	5	0	0	0	0	5	10	50.00	18.75	0.00	10.42	6.25	0.00	2.08	2.08	2.08	2.08	0.00	0.00	0.00	0.00	2.08	4.17
13	Wong Chuk Hang Road	2	130	10	15	0	5	5	0	0	30	5	0	0	0	0	5	55	0	7.69	11.54	0.00	3.85	3.85	0.00	0.00	23.08	3.85	0.00	0.00	0.00	0.00	3.85	42.31	0.00
14	Wong Chuk Hang Road	2	55	20	10	0	5	0	0	0	10	0	0	0	0	0	0	10	0	36.36	18.18	0.00	9.09	0.00	0.00	0.00	18.18	0.00	0.00	0.00	0.00	0.00	0.00	18.18	0.00
15	Wong Chuk Hang Road	2	300	135	50	0	25	15	0	5	15	10	5	5	0	0	0	25	10	45.00	16.67	0.00	8.33	5.00	0.00	1.67	5.00	3.33	1.67	1.67	0.00	0.00	0.00	8.33	3.33
16	Nam Long Shan Road	1	185	90	30	0	5	5	0	5	10	5	5	5	0	0	0	20	5	48.65	16.22	0.00	2.70	2.70	0.00	2.70	5.41	2.70	2.70	2.70	0.00	0.00	0.00	10.81	2.70
17	Heung Yip Road	1	45	25	5	0	5	5	0	0	0	5	0	0	0	0	0	0	0	55.56	11.11	0.00	11.11	11.11	0.00	0.00	0.00	11.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	Heung Yip Road	1	55	30	5	0	5	5	0	0	0	5	5	0	0	0	0	0	0	54.55	9.09	0.00	9.09	9.09	0.00	0.00	0.00	9.09	9.09	0.00	0.00	0.00	0.00	0.00	0.00
19	Heung Yip Road	1	75	40	5	0	10	5	0	0	0	5	5	0	0	0	0	0	5	53.33	6.67	0.00	13.33	6.67	0.00	0.00	0.00	6.67	6.67	0.00	0.00	0.00	0.00	0.00	6.67
20	Yip Fat St	1	30	20	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	66.67	16.67	0.00	16.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	Heung Yip Road	1	40	25	5	0	5	5	0	0	0	0	0	0	0	0	0	0	0	62.50	12.50	0.00	12.50	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	Yip Fat St	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	Yip Fat St	1	20	15	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	75.00	0.00	0.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	Heung Yip Road	1	40	25	5	0	5	5	0	0	0	0	0	0	0	0	0	0	0	62.50	12.50	0.00	12.50	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	Heung Yip Road	1	35	25	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	71.43	14.29	0.00	14.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	Heung Yip Road	1	55	35	5	0	5	5	0	0	0	5	0	0	0	0	0	0	0	63.64	9.09	0.00	9.09	9.09	0.00	0.00	0.00	9.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	Heung Yip Road	1	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	Heung Yip Road	1	15	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	Heung Yip Road	1	25	15	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	60.00	20.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	Nam Long Shan Road	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00
31	Nam Long Shan Road	1	60	40	10	0	5	0	0	0	0	0	0	0	0	0	0	5	0	66.67	16.67	0.00	8.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.33	0.00
32	Nam Long Shan Road	1	55	35	10	0	5	0	0	0	0	0	0	0	0	0	0	5	0	63.64	18.18	0.00	9.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.09	0.00
33	Welfare Road	1	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	Welfare Road	1	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	Shum Wan Road	1	15	10	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66.67	33.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36	Shum Wan Road	1	15	10	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66.67	33.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37	Shum Wan Pier Drive	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38	Nam Long Shan Road	1	60	40	10	0	5	0	0	0	0	0	0	0	0	0	0	5	0	66.67	16.67	0.00	8.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.33	0.00
39	Nam Long Shan Road	1	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40	Nam Long Shan Road	1	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
41	Police School Road	1	60	40	10	0	5	0	0	0	0	0	0	0	0	0	0	5	0	66.67	16.67	0.00	8.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.33	0.00
42#	Police School Road		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 03-04)

Emission Factor Calculations (Hour: 00-01)

Hour: 03-04				% of Total Flow x Emission Factor (NOx)																	% of Total Flow x Emission Factor (RSP)																	Composite Emission Factor (g/veh·km)	
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	NOx	RSP
1	Yip Hing St	1	5	4.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.048	0.005
2	Tong Bin Lane	1	5	4.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.048	0.005
3	Tong Bin Lane (near J/Wong Chuk	1	15	1.61	14.22	0.00	0.00	0.00	0.00	140.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	7.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.568	0.081
4	Yip Kan St	1	20	2.41	10.67	0.00	0.00	0.00	0.00	105.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.00	5.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.188	0.062
5	Wong Chuk Hang Road	2	295	1.93	6.61	0.00	6.38	8.76	0.00	6.56	5.09	0.48	1.39	3.08	0.00	0.00	0.00	50.11	1.19	0.18	0.00	0.00	0.40	0.24	0.00	0.31	0.40	0.05	0.06	0.23	0.00	0.00	0.00	0.52	0.03	0.916	0.024
6	Wong Chuk Hang Road	2	330	1.99	7.09	0.00	6.84	7.83	0.00	5.86	4.55	0.43	1.24	2.76	0.00	0.00	0.00	44.80	1.06	0.18	0.00	0.00	0.43	0.22	0.00	0.28	0.36	0.04	0.06	0.20	0.00	0.00	0.00	0.46	0.02	0.844	0.023
7	Wong Chuk Hang Road	2	145	1.36	5.38	0.00	5.19	5.94	0.00	0.00	10.36	0.49	2.83	6.27	0.00	0.00	0.00	122.34	1.21	0.13	0.00	0.00	0.32	0.16	0.00	0.00	0.82	0.05	0.13	0.47	0.00	0.00	0.00	1.27	0.03	1.614	0.034
8	Wong Chuk Hang Road(flyover)	3	190	1.80	5.82	0.00	7.64	7.35	0.00	8.63	2.86	0.31	2.03	0.00	0.00	0.00	0.00	13.14	0.91	0.10	0.00	0.00	0.29	0.20	0.00	0.32	0.15	0.02	0.10	0.00	0.00	0.00	0.00	0.15	0.02	0.505	0.014
9	Wong Chuk Hang Road	2	210	2.29	6.50	0.00	3.58	4.10	0.00	9.21	2.38	0.34	1.95	4.33	0.00	0.00	0.00	70.40	0.00	0.21	0.00	0.00	0.22	0.11	0.00	0.44	0.19	0.03	0.09	0.32	0.00	0.00	0.00	0.73	0.00	1.051	0.023
10	Wong Chuk Hang Road	2	155	2.40	6.29	0.00	2.43	5.56	0.00	12.48	3.23	0.46	0.00	0.00	0.00	0.00	0.00	76.30	0.00	0.22	0.00	0.00	0.15	0.15	0.00	0.59	0.26	0.05	0.00	0.00	0.00	0.00	0.00	0.79	0.00	1.091	0.022
11	Wong Chuk Hang Road	2	125	2.45	6.24	0.00	3.01	6.89	0.00	15.48	4.00	0.00	0.00	0.00	0.00	0.00	0.00	70.96	0.00	0.23	0.00	0.00	0.19	0.19	0.00	0.73	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.74	0.00	1.090	0.024
12	Wong Chuk Hang Road(flyover)	3	240	1.80	5.92	0.00	7.56	8.72	0.00	6.83	2.26	0.25	1.60	0.00	0.00	0.00	0.00	10.40	1.45	0.10	0.00	0.00	0.29	0.24	0.00	0.26	0.12	0.02	0.08	0.00	0.00	0.00	0.00	0.12	0.03	0.468	0.012
13	Wong Chuk Hang Road	2	130	0.34	4.50	0.00	2.89	6.63	0.00	0.00	23.10	0.55	0.00	0.00	0.00	0.00	21.94	250.17	0.00	0.03	0.00	0.00	0.18	0.18	0.00	0.00	1.84	0.05	0.00	0.00	0.00	0.00	0.18	2.59	0.00	3.101	0.051
14	Wong Chuk Hang Road	2	55	1.59	7.09	0.00	6.84	0.00	0.00	0.00	18.20	0.00	0.00	0.00	0.00	0.00	0.00	107.51	0.00	0.15	0.00	0.00	0.43	0.00	0.00	0.00	1.45	0.00	0.00	0.00	0.00	0.00	0.00	1.11	0.00	1.412	0.031
15	Wong Chuk Hang Road	2	300	1.97	6.50	0.00	6.27	8.62	0.00	6.45	5.01	0.47	1.37	3.03	0.00	0.00	0.00	49.28	1.17	0.18	0.00	0.00	0.39	0.24	0.00	0.31	0.40	0.05	0.06	0.23	0.00	0.00	0.00	0.51	0.03	0.901	0.024
16	Nam Long Shan Road	1	185	2.35	6.92	0.00	2.25	5.17	0.00	11.43	0.00	0.41	2.34	0.00	0.00	0.00	0.00	70.05	0.00	0.27	0.00	0.00	0.15	0.16	0.00	0.64	0.00	0.05	0.12	0.00	0.00	0.00	0.00	0.79	0.00	1.009	0.022
17	Heung Yip Road	1	45	2.68	4.74	0.00	9.26	21.26	0.00	0.00	0.00	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.63	0.66	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.396	0.018
18	Heung Yip Road	1	55	2.63	3.88	0.00	7.57	17.39	0.00	0.00	0.00	1.37	7.88	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.51	0.54	0.00	0.00	0.00	0.16	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.407	0.019
19	Heung Yip Road	1	75	2.57	2.84	0.00	11.11	12.75	0.00	0.00	0.00	1.00	5.78	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.75	0.39	0.00	0.00	0.00	0.12	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.361	0.018
20	Yip Fat St	1	30	3.22	7.11	0.00	13.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.242	0.013
21	Heung Yip Road	1	40	3.02	5.33	0.00	10.41	23.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.71	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.427	0.018
22	Yip Fat St	1	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
23	Yip Fat St	1	20	3.62	0.00	0.00	20.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.244	0.018
24	Heung Yip Road	1	40	3.02	5.33	0.00	10.41	23.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.71	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.427	0.018
25	Heung Yip Road	1	35	3.45	6.09	0.00	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.214	0.012
26	Heung Yip Road	1	55	3.07	3.88	0.00	7.57	17.39	0.00	0.00	0.00	1.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.51	0.54	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.333	0.016
27	Heung Yip Road	1	10	4.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.048	0.005
28	Heung Yip Road	1	15	4.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.048	0.005
29	Heung Yip Road	1	25	2.89	8.53	0.00	16.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.281	0.015
30	Nam Long Shan Road	1	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	647.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.31	0.00	6.480	0.073
31	Nam Long Shan Road	1	60	3.22	7.11	0.00	6.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.00	0.00	0.36	0.00	0.00	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.00	0.713	0.014
32	Nam Long Shan Road	1	55	3.07	7.76	0.00	7.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	58.91	0.00	0.35	0.00	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00	0.773	0.015
33	Welfare Road	1	5	4.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.048	0.005
34	Welfare Road	1	5	4.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.048	0.005
35	Shum Wan Road	1	15	3.22	14.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.174	0.004
36	Shum Wan Road	1	15	3.22	14.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.174	0.004
37	Shum Wan Pier Drive	1	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
38	Nam Long Shan Road	1	60	3.22	7.11	0.00	6.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.00	0.00	0.36	0.00	0.00	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.00	0.713	0.014
39	Nam Long Shan Road	1	10	4.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.048	0.005
40	Nam Long Shan Road	1	10	4.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.048	0.005
41	Police School Road	1	60	3.22	7.11	0.00	6.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.00	0.00	0.36	0.00	0.00	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.00	0.713	0.014
42#	Police School Road		NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	#VALUE!	#VALUE!

Emission Factors from EMFAC (Type 1 Local Road - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0482	0.4266	0.0000	0.8330	1.9130	0.0000	4.2286	0.0000	0.1506	0.8667	0.0000	0.0000	0.0000	0.0000	6.4796	0.0000
RSP	0.0054	0.0000	0.0000	0.0566	0.0591	0.0000	0.2375	0.0000	0.0181	0.0431	0.0000	0.0000	0.0000	0.0000	0.0731	0.0000

Emission Factors from EMFAC (Type 2 Primary Distributor - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0437	0.3898	0.0000	0.7524	1.7236	0.0000	3.8689	1.0010	0.1420	0.8198	1.8190	0.0000	0.0000	5.7043	5.9132	0.3503
RSP	0.0040	0.0000	0.0000	0.0469	0.0476	0.0000	0.1831	0.0796	0.0141	0.0376	0.1353	0.0000	0.0000	0.0459	0.0613	0.0079

Emission Factors from EMFAC (Type 3 Primary Distributor - 70kph)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0360	0.3160	0.0000	0.7256	1.3957	0.0000	3.2789	1.0851	0.1186	0.7696	0.0000	0.0000	0.0000	0.0000	4.9929	0.3473
RSP	0.0021	0.0000	0.0000	0.0277	0.0379	0.0000	0.1226	0.0577	0.0078	0.0383	0.0000	0.0000	0.0000	0.0000	0.0558	0.0070

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 04-05)

Traffic (Hour: 04-05)

Hour: 04-05				Flow Rate (veh./hr)																% of Total Flow															
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
1	Yip Hing St	1	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	Tong Bin Lane	1	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	Tong Bin Lane (near J/Wong Chuk	1	15	5	5	0	0	0	0	5	0	0	0	0	0	0	0	0	0	33.33	33.33	0.00	0.00	0.00	0.00	33.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	Yip Kan St	1	20	10	5	0	0	0	0	5	0	0	0	0	0	0	0	0	0	50.00	25.00	0.00	0.00	0.00	0.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	Wong Chuk Hang Road	2	300	135	50	0	25	15	0	5	15	10	5	5	0	0	0	25	10	45.00	16.67	0.00	8.33	5.00	0.00	1.67	5.00	3.33	1.67	1.67	0.00	0.00	0.00	8.33	3.33
6	Wong Chuk Hang Road	2	330	150	60	0	30	15	0	5	15	10	5	5	0	0	0	25	10	45.45	18.18	0.00	9.09	4.55	0.00	1.52	4.55	3.03	1.52	1.52	0.00	0.00	0.00	7.58	3.03
7	Wong Chuk Hang Road	2	150	50	20	0	10	5	0	0	15	5	5	5	0	0	0	30	5	33.33	13.33	0.00	6.67	3.33	0.00	0.00	10.00	3.33	3.33	3.33	0.00	0.00	0.00	20.00	3.33
8	Wong Chuk Hang Road(flyover)	3	190	95	35	0	20	10	0	5	5	5	5	0	0	0	0	5	5	50.00	18.42	0.00	10.53	5.26	0.00	2.63	2.63	2.63	2.63	0.00	0.00	0.00	0.00	2.63	2.63
9	Wong Chuk Hang Road	2	215	115	35	0	10	5	0	5	5	5	5	5	0	0	0	25	0	53.49	16.28	0.00	4.65	2.33	0.00	2.33	2.33	2.33	2.33	2.33	0.00	0.00	0.00	11.63	0.00
10	Wong Chuk Hang Road	2	155	85	25	0	5	5	0	5	5	5	0	0	0	0	0	20	0	54.84	16.13	0.00	3.23	3.23	0.00	3.23	3.23	3.23	0.00	0.00	0.00	0.00	0.00	12.90	0.00
11	Wong Chuk Hang Road	2	125	70	20	0	5	5	0	5	5	0	0	0	0	0	0	15	0	56.00	16.00	0.00	4.00	4.00	0.00	4.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	12.00	0.00
12	Wong Chuk Hang Road(flyover)	3	235	120	45	0	20	15	0	5	5	5	5	0	0	0	0	5	10	51.06	19.15	0.00	8.51	6.38	0.00	2.13	2.13	2.13	2.13	0.00	0.00	0.00	0.00	2.13	4.26
13	Wong Chuk Hang Road	2	130	10	15	0	5	5	0	0	30	5	0	0	0	0	5	55	0	7.69	11.54	0.00	3.85	3.85	0.00	0.00	23.08	3.85	0.00	0.00	0.00	0.00	3.85	42.31	0.00
14	Wong Chuk Hang Road	2	55	20	10	0	5	0	0	0	10	0	0	0	0	0	0	10	0	36.36	18.18	0.00	9.09	0.00	0.00	0.00	18.18	0.00	0.00	0.00	0.00	0.00	0.00	18.18	0.00
15	Wong Chuk Hang Road	2	305	135	55	0	25	15	0	5	15	10	5	5	0	0	0	25	10	44.26	18.03	0.00	8.20	4.92	0.00	1.64	4.92	3.28	1.64	1.64	0.00	0.00	0.00	8.20	3.28
16	Nam Long Shan Road	1	185	90	30	0	5	5	0	5	10	5	5	5	0	0	0	20	5	48.65	16.22	0.00	2.70	2.70	0.00	2.70	5.41	2.70	2.70	2.70	0.00	0.00	0.00	10.81	2.70
17	Heung Yip Road	1	45	25	5	0	5	5	0	0	0	5	0	0	0	0	0	0	0	55.56	11.11	0.00	11.11	11.11	0.00	0.00	0.00	11.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	Heung Yip Road	1	55	30	5	0	5	5	0	0	0	5	5	0	0	0	0	0	0	54.55	9.09	0.00	9.09	9.09	0.00	0.00	0.00	9.09	9.09	0.00	0.00	0.00	0.00	0.00	0.00
19	Heung Yip Road	1	75	40	5	0	10	5	0	0	0	5	5	0	0	0	0	0	5	53.33	6.67	0.00	13.33	6.67	0.00	0.00	0.00	6.67	6.67	0.00	0.00	0.00	0.00	0.00	6.67
20	Yip Fat St	1	30	20	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	66.67	16.67	0.00	16.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	Heung Yip Road	1	35	25	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	71.43	14.29	0.00	14.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	Yip Fat St	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	Yip Fat St	1	20	15	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	75.00	0.00	0.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	Heung Yip Road	1	35	25	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	71.43	14.29	0.00	14.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	Heung Yip Road	1	35	25	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	71.43	14.29	0.00	14.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	Heung Yip Road	1	55	35	5	0	5	5	0	0	0	5	0	0	0	0	0	0	0	63.64	9.09	0.00	9.09	9.09	0.00	0.00	0.00	9.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	Heung Yip Road	1	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	Heung Yip Road	1	15	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	Heung Yip Road	1	20	15	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	75.00	0.00	0.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	Nam Long Shan Road	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00
31	Nam Long Shan Road	1	55	40	10	0	0	0	0	0	0	0	0	0	0	0	0	5	0	72.73	18.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.09	0.00
32	Nam Long Shan Road	1	50	35	10	0	0	0	0	0	0	0	0	0	0	0	0	5	0	70.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.00	0.00
33	Welfare Road	1	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	Welfare Road	1	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	Shum Wan Road	1	15	10	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66.67	33.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36	Shum Wan Road	1	15	10	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66.67	33.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37	Shum Wan Pier Drive	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38	Nam Long Shan Road	1	60	40	10	0	5	0	0	0	0	0	0	0	0	0	0	5	0	66.67	16.67	0.00	8.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.33	0.00
39	Nam Long Shan Road	1	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40	Nam Long Shan Road	1	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
41	Police School Road	1	55	40	10	0	0	0	0	0	0	0	0	0	0	0	0	5	0	72.73	18.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.09	0.00
42#	Police School Road		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 04-05)

Emission Factor Calculations (Hour: 00-01)

Hour: 04-05				% of Total Flow x Emission Factor (NOx)																	% of Total Flow x Emission Factor (RSP)																		Composite Emission Factor (g/veh·km)	
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	NOx	RSP
1	Yip Hing St	1	5	4.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.049	0.005
2	Tong Bin Lane	1	5	4.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.049	0.005
3	Tong Bin Lane (near J/Wong Chuk	1	15	1.63	14.32	0.00	0.00	0.00	0.00	140.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	7.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.569	0.081
4	Yip Kan St	1	20	2.45	10.74	0.00	0.00	0.00	0.00	105.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.00	5.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.189	0.062
5	Wong Chuk Hang Road	2	300	1.97	6.52	0.00	6.28	8.63	0.00	6.46	5.02	0.47	1.37	3.04	0.00	0.00	0.00	49.36	1.17	0.18	0.00	0.00	0.39	0.24	0.00	0.31	0.40	0.05	0.06	0.23	0.00	0.00	0.00	0.51	0.03	0.903	0.024
6	Wong Chuk Hang Road	2	330	1.99	7.11	0.00	6.85	7.85	0.00	5.87	4.56	0.43	1.25	2.76	0.00	0.00	0.00	44.87	1.07	0.18	0.00	0.00	0.43	0.22	0.00	0.28	0.36	0.04	0.06	0.20	0.00	0.00	0.00	0.46	0.02	0.846	0.023
7	Wong Chuk Hang Road	2	150	1.46	5.21	0.00	5.02	5.75	0.00	0.00	10.04	0.47	2.74	6.07	0.00	0.00	0.00	118.46	1.17	0.13	0.00	0.00	0.31	0.16	0.00	0.00	0.80	0.05	0.13	0.45	0.00	0.00	0.00	1.23	0.03	1.564	0.033
8	Wong Chuk Hang Road(flyover)	3	190	1.80	5.84	0.00	7.65	7.36	0.00	8.64	2.86	0.31	2.03	0.00	0.00	0.00	0.00	13.16	0.92	0.10	0.00	0.00	0.29	0.20	0.00	0.32	0.15	0.02	0.10	0.00	0.00	0.00	0.00	0.15	0.02	0.506	0.014
9	Wong Chuk Hang Road	2	215	2.35	6.37	0.00	3.51	4.01	0.00	9.01	2.34	0.33	1.91	4.24	0.00	0.00	0.00	68.87	0.00	0.22	0.00	0.00	0.22	0.11	0.00	0.43	0.19	0.03	0.09	0.31	0.00	0.00	0.00	0.71	0.00	1.029	0.023
10	Wong Chuk Hang Road	2	155	2.40	6.31	0.00	2.43	5.57	0.00	12.50	3.24	0.46	0.00	0.00	0.00	0.00	0.00	76.42	0.00	0.22	0.00	0.00	0.15	0.15	0.00	0.59	0.26	0.05	0.00	0.00	0.00	0.00	0.00	0.79	0.00	1.093	0.022
11	Wong Chuk Hang Road	2	125	2.46	6.26	0.00	3.01	6.91	0.00	15.50	4.02	0.00	0.00	0.00	0.00	0.00	0.00	71.07	0.00	0.23	0.00	0.00	0.19	0.19	0.00	0.73	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.74	0.00	1.092	0.024
12	Wong Chuk Hang Road(flyover)	3	235	1.84	6.07	0.00	6.19	8.92	0.00	6.99	2.32	0.25	1.64	0.00	0.00	0.00	0.00	10.64	1.48	0.11	0.00	0.00	0.24	0.24	0.00	0.26	0.12	0.02	0.08	0.00	0.00	0.00	0.00	0.12	0.03	0.463	0.012
13	Wong Chuk Hang Road	2	130	0.34	4.51	0.00	2.90	6.64	0.00	0.00	23.17	0.55	0.00	0.00	0.00	0.00	21.98	250.58	0.00	0.03	0.00	0.00	0.18	0.18	0.00	0.00	1.84	0.05	0.00	0.00	0.00	0.00	0.18	2.59	0.00	3.107	0.051
14	Wong Chuk Hang Road	2	55	1.59	7.11	0.00	6.85	0.00	0.00	0.00	18.26	0.00	0.00	0.00	0.00	0.00	0.00	107.69	0.00	0.15	0.00	0.00	0.43	0.00	0.00	0.00	1.45	0.00	0.00	0.00	0.00	0.00	0.00	1.11	0.00	1.415	0.031
15	Wong Chuk Hang Road	2	305	1.94	7.05	0.00	6.18	8.49	0.00	6.35	4.94	0.47	1.35	2.99	0.00	0.00	0.00	48.55	1.15	0.18	0.00	0.00	0.38	0.23	0.00	0.30	0.39	0.05	0.06	0.22	0.00	0.00	0.00	0.50	0.03	0.895	0.023
16	Nam Long Shan Road	1	185	2.38	6.97	0.00	2.25	5.20	0.00	11.43	0.00	0.41	2.34	0.00	0.00	0.00	0.00	70.25	0.00	0.27	0.00	0.00	0.15	0.16	0.00	0.64	0.00	0.05	0.12	0.00	0.00	0.00	0.00	0.79	0.00	1.012	0.022
17	Heung Yip Road	1	45	2.72	4.77	0.00	9.26	21.39	0.00	0.00	0.00	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.63	0.66	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.398	0.018
18	Heung Yip Road	1	55	2.67	3.91	0.00	7.58	17.50	0.00	0.00	0.00	1.37	7.88	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.51	0.54	0.00	0.00	0.00	0.16	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.409	0.019
19	Heung Yip Road	1	75	2.61	2.86	0.00	11.12	12.83	0.00	0.00	0.00	1.00	5.78	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.75	0.39	0.00	0.00	0.00	0.12	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.362	0.018
20	Yip Fat St	1	30	3.26	7.16	0.00	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.243	0.013
21	Heung Yip Road	1	35	3.49	6.14	0.00	11.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.215	0.012
22	Yip Fat St	1	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
23	Yip Fat St	1	20	3.67	0.00	0.00	20.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.245	0.018
24	Heung Yip Road	1	35	3.49	6.14	0.00	11.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.215	0.012
25	Heung Yip Road	1	35	3.49	6.14	0.00	11.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.215	0.012
26	Heung Yip Road	1	55	3.11	3.91	0.00	7.58	17.50	0.00	0.00	0.00	1.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.51	0.54	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.335	0.016
27	Heung Yip Road	1	10	4.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.049	0.005
28	Heung Yip Road	1	15	4.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.049	0.005
29	Heung Yip Road	1	20	3.67	0.00	0.00	20.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.245	0.018
30	Nam Long Shan Road	1	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	649.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.31	0.00	6.498	0.073
31	Nam Long Shan Road	1	55	3.56	7.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.07	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00	0.704	0.011
32	Nam Long Shan Road	1	50	3.42	8.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.98	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.00	0.770	0.011
33	Welfare Road	1	5	4.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.049	0.005
34	Welfare Road	1	5	4.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.049	0.005
35	Shum Wan Road	1	15	3.26	14.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.176	0.004
36	Shum Wan Road	1	15	3.26	14.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.176	0.004
37	Shum Wan Pier Drive	1	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
38	Nam Long Shan Road	1	60	3.26	7.16	0.00	6.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.15	0.00	0.36	0.00	0.00	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.00	0.715	0.014
39	Nam Long Shan Road	1	10	4.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.049	0.005
40	Nam Long Shan Road	1	10	4.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.049	0.005
41	Police School Road	1	55	3.56	7.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.07	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00	0.704	0.011
42#	Police School Road		NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	#VALUE!	#VALUE!

Emission Factors from EMFAC (Type 1 Local Road - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0489	0.4296	0.0000	0.8337	1.9247	0.0000	4.2286	0.0000	0.1506	0.8667	0.0000	0.0000	0.0000	0.0000	6.4977	0.0000
RSP	0.0054	0.0000	0.0000	0.0566	0.0591	0.0000	0.2375	0.0000	0.0181	0.0431	0.0000	0.0000	0.0000	0.0000	0.0731	0.0000

Emission Factors from EMFAC (Type 2 Primary Distributor - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0439	0.3910	0.0000	0.7536	1.7264	0.0000	3.8752	1.0041	0.1425	0.8218	1.8219	0.0000	0.0000	5.7136	5.9228	0.3516
RSP	0.0040	0.0000	0.0000	0.0469	0.0476	0.0000	0.1831	0.0796	0.0141	0.0376	0.1353	0.0000	0.0000	0.0459	0.0613	0.0079

Emission Factors from EMFAC (Type 3 Primary Distributor - 70kph)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0361	0.3170	0.0000	0.7268	1.3980	0.0000	3.2842	1.0885	0.1190	0.7716	0.0000	0.0000	0.0000	0.0000	5.0010	0.3486
RSP	0.0021	0.0000	0.0000	0.0277	0.0379	0.0000	0.1226	0.0577	0.0078	0.0383	0.0000	0.0000	0.0000	0.0000	0.0558	0.0070

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 05-06)

Traffic (Hour: 05-06)

Hour: 05-06				Flow Rate (veh./hr)																% of Total Flow																
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
1	Yip Hing St	1	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	Tong Bin Lane	1	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	Tong Bin Lane (near J/Wong Chuk	1	30	15	5	0	5	0	0	5	0	0	0	0	0	0	0	0	0	50.00	16.67	0.00	16.67	0.00	0.00	16.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	Yip Kan St	1	35	15	5	0	5	5	0	5	0	0	0	0	0	0	0	0	0	42.86	14.29	0.00	14.29	14.29	0.00	14.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	Wong Chuk Hang Road	2	305	135	55	0	25	15	0	5	15	10	5	5	0	0	0	25	10	44.26	18.03	0.00	8.20	4.92	0.00	1.64	4.92	3.28	1.64	1.64	0.00	0.00	0.00	8.20	3.28
6	Wong Chuk Hang Road	2	340	155	60	0	30	15	0	5	20	10	5	5	0	0	0	25	10	45.59	17.65	0.00	8.82	4.41	0.00	1.47	5.88	2.94	1.47	1.47	0.00	0.00	0.00	7.35	2.94
7	Wong Chuk Hang Road	2	150	50	20	0	10	5	0	0	15	5	5	5	0	0	0	30	5	33.33	13.33	0.00	6.67	3.33	0.00	0.00	10.00	3.33	3.33	3.33	0.00	0.00	0.00	20.00	3.33
8	Wong Chuk Hang Road(flyover)	3	190	95	35	0	20	10	0	5	5	5	5	0	0	0	0	5	5	50.00	18.42	0.00	10.53	5.26	0.00	2.63	2.63	2.63	2.63	0.00	0.00	0.00	0.00	2.63	2.63
9	Wong Chuk Hang Road	2	210	115	35	0	10	5	0	5	5	5	5	0	0	0	0	25	0	54.76	16.67	0.00	4.76	2.38	0.00	2.38	2.38	2.38	2.38	0.00	0.00	0.00	0.00	11.90	0.00
10	Wong Chuk Hang Road	2	155	90	25	0	5	5	0	5	5	0	0	0	0	0	0	20	0	58.06	16.13	0.00	3.23	3.23	0.00	3.23	3.23	0.00	0.00	0.00	0.00	0.00	0.00	12.90	0.00
11	Wong Chuk Hang Road	2	120	70	20	0	5	0	0	5	5	0	0	0	0	0	0	15	0	58.33	16.67	0.00	4.17	0.00	0.00	4.17	4.17	0.00	0.00	0.00	0.00	0.00	0.00	12.50	0.00
12	Wong Chuk Hang Road(flyover)	3	235	120	45	0	20	15	0	5	5	5	5	0	0	0	0	5	10	51.06	19.15	0.00	8.51	6.38	0.00	2.13	2.13	2.13	2.13	0.00	0.00	0.00	0.00	2.13	4.26
13	Wong Chuk Hang Road	2	125	10	15	0	5	0	0	0	30	5	0	0	0	0	5	55	0	8.00	12.00	0.00	4.00	0.00	0.00	0.00	24.00	4.00	0.00	0.00	0.00	0.00	4.00	44.00	0.00
14	Wong Chuk Hang Road	2	55	20	10	0	5	0	0	0	10	0	0	0	0	0	0	10	0	36.36	18.18	0.00	9.09	0.00	0.00	0.00	18.18	0.00	0.00	0.00	0.00	0.00	0.00	18.18	0.00
15	Wong Chuk Hang Road	2	310	140	55	0	25	15	0	5	15	10	5	5	0	0	0	25	10	45.16	17.74	0.00	8.06	4.84	0.00	1.61	4.84	3.23	1.61	1.61	0.00	0.00	0.00	8.06	3.23
16	Nam Long Shan Road	1	190	95	30	0	5	5	0	5	10	5	5	5	0	0	0	20	5	50.00	15.79	0.00	2.63	2.63	0.00	2.63	5.26	2.63	2.63	2.63	0.00	0.00	0.00	10.53	2.63
17	Heung Yip Road	1	95	55	10	0	10	5	0	0	0	5	5	0	0	0	0	0	5	57.89	10.53	0.00	10.53	5.26	0.00	0.00	0.00	5.26	5.26	0.00	0.00	0.00	0.00	0.00	5.26
18	Heung Yip Road	1	110	65	10	0	10	5	0	0	0	5	5	5	0	0	0	0	5	59.09	9.09	0.00	9.09	4.55	0.00	0.00	0.00	4.55	4.55	4.55	0.00	0.00	0.00	0.00	4.55
19	Heung Yip Road	1	155	85	15	0	15	10	0	5	0	10	5	5	0	0	0	0	5	54.84	9.68	0.00	9.68	6.45	0.00	3.23	0.00	6.45	3.23	3.23	0.00	0.00	0.00	0.00	3.23
20	Yip Fat St	1	65	35	5	0	5	5	0	0	0	5	5	0	0	0	0	0	5	53.85	7.69	0.00	7.69	7.69	0.00	0.00	0.00	7.69	7.69	0.00	0.00	0.00	0.00	0.00	7.69
21	Heung Yip Road	1	90	50	10	0	10	5	0	0	0	5	5	0	0	0	0	0	5	55.56	11.11	0.00	11.11	5.56	0.00	0.00	0.00	5.56	5.56	0.00	0.00	0.00	0.00	0.00	5.56
22	Yip Fat St	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	Yip Fat St	1	55	30	5	0	5	5	0	0	0	5	5	0	0	0	0	0	0	54.55	9.09	0.00	9.09	9.09	0.00	0.00	0.00	9.09	9.09	0.00	0.00	0.00	0.00	0.00	0.00
24	Heung Yip Road	1	85	50	5	0	10	5	0	0	0	5	5	0	0	0	0	0	5	58.82	5.88	0.00	11.76	5.88	0.00	0.00	0.00	5.88	5.88	0.00	0.00	0.00	0.00	0.00	5.88
25	Heung Yip Road	1	90	55	10	0	5	5	0	0	0	5	5	0	0	0	0	0	5	61.11	11.11	0.00	5.56	5.56	0.00	0.00	0.00	5.56	5.56	0.00	0.00	0.00	0.00	0.00	5.56
26	Heung Yip Road	1	120	75	15	0	10	5	0	0	0	5	5	0	0	0	0	0	5	62.50	12.50	0.00	8.33	4.17	0.00	0.00	0.00	4.17	4.17	0.00	0.00	0.00	0.00	0.00	4.17
27	Heung Yip Road	1	30	20	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	66.67	16.67	0.00	16.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	Heung Yip Road	1	60	30	5	0	5	5	0	0	0	5	5	0	0	0	0	0	5	50.00	8.33	0.00	8.33	8.33	0.00	0.00	0.00	8.33	8.33	0.00	0.00	0.00	0.00	0.00	8.33
29	Heung Yip Road	1	65	35	5	0	5	5	0	0	0	5	5	0	0	0	0	0	5	53.85	7.69	0.00	7.69	7.69	0.00	0.00	0.00	7.69	7.69	0.00	0.00	0.00	0.00	0.00	7.69
30	Nam Long Shan Road	1	10	0	0	0	0	0	0	0	5	0	0	0	0	0	0	5	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	50.00	0.00
31	Nam Long Shan Road	1	125	80	15	0	5	0	0	0	5	5	5	0	0	0	0	5	5	64.00	12.00	0.00	4.00	0.00	0.00	0.00	4.00	4.00	4.00	0.00	0.00	0.00	0.00	4.00	4.00
32	Nam Long Shan Road	1	120	75	15	0	5	0	0	0	5	5	5	0	0	0	0	5	5	62.50	12.50	0.00	4.17	0.00	0.00	0.00	4.17	4.17	4.17	0.00	0.00	0.00	0.00	4.17	4.17
33	Welfare Road	1	15	10	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66.67	33.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	Welfare Road	1	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	Shum Wan Road	1	65	30	10	0	5	0	0	0	5	5	5	0	0	0	0	5	0	46.15	15.38	0.00	7.69	0.00	0.00	0.00	7.69	7.69	7.69	0.00	0.00	0.00	0.00	7.69	0.00
36	Shum Wan Road	1	65	30	10	0	5	0	0	0	5	5	5	0	0	0	0	5	0	46.15	15.38	0.00	7.69	0.00	0.00	0.00	7.69	7.69	7.69	0.00	0.00	0.00	0.00	7.69	0.00
37	Shum Wan Pier Drive	1	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38	Nam Long Shan Road	1	130	85	15	0	5	0	0	0	5	5	5	0	0	0	0	5	5	65.38	11.54	0.00	3.85	0.00	0.00	0.00	3.85	3.85	3.85	0.00	0.00	0.00	0.00	3.85	3.85
39	Nam Long Shan Road	1	25	20	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40	Nam Long Shan Road	1	30	25	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	83.33	16.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
41	Police School Road	1	125	80	15	0	5	0	0	0	5	5	5	0	0	0	0	5	5	64.00	12.00	0.00	4.00	0.00	0.00	0.00	4.00	4.00	4.00	0.00	0.00	0.00	0.00	4.00	4.00
42#	Police School Road		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 05-06)

Emission Factor Calculations (Hour: 00-01)

Hour: 05-06				% of Total Flow x Emission Factor (NOx)																	% of Total Flow x Emission Factor (RSP)																	Composite Emission Factor (g/veh·km)	
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	NOx	RSP
1	Yip Hing St	1	5	4.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.049	0.005
2	Tong Bin Lane	1	5	4.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.049	0.005
3	Tong Bin Lane (near J/Wong Chuk	1	30	2.44	7.17	0.00	13.87	0.00	0.00	71.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.94	0.00	0.00	3.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.945	0.052
4	Yip Kan St	1	35	2.09	6.15	0.00	11.88	27.45	0.00	60.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.81	0.84	0.00	3.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.084	0.053
5	Wong Chuk Hang Road	2	305	1.95	7.07	0.00	6.18	8.50	0.00	6.36	4.95	0.47	1.35	2.99	0.00	0.00	0.00	48.60	1.16	0.18	0.00	0.00	0.38	0.23	0.00	0.30	0.39	0.05	0.06	0.22	0.00	0.00	0.00	0.50	0.03	0.896	0.023
6	Wong Chuk Hang Road	2	340	2.00	6.92	0.00	6.66	7.63	0.00	5.71	5.92	0.42	1.21	2.68	0.00	0.00	0.00	43.60	1.04	0.18	0.00	0.00	0.41	0.21	0.00	0.27	0.47	0.04	0.06	0.20	0.00	0.00	0.00	0.45	0.02	0.838	0.023
7	Wong Chuk Hang Road	2	150	1.46	5.23	0.00	5.03	5.76	0.00	0.00	10.06	0.48	2.74	6.08	0.00	0.00	0.00	118.59	1.17	0.13	0.00	0.00	0.31	0.16	0.00	0.00	0.80	0.05	0.13	0.45	0.00	0.00	0.00	1.23	0.03	1.566	0.033
8	Wong Chuk Hang Road(flyover)	3	190	1.81	5.85	0.00	7.66	7.37	0.00	8.65	2.87	0.31	2.03	0.00	0.00	0.00	0.00	13.18	0.92	0.10	0.00	0.00	0.29	0.20	0.00	0.32	0.15	0.02	0.10	0.00	0.00	0.00	0.00	0.15	0.02	0.507	0.014
9	Wong Chuk Hang Road	2	210	2.41	6.53	0.00	3.59	4.12	0.00	9.24	2.40	0.34	1.96	0.00	0.00	0.00	0.00	70.59	0.00	0.22	0.00	0.00	0.22	0.11	0.00	0.44	0.19	0.03	0.09	0.00	0.00	0.00	0.00	0.73	0.00	1.012	0.020
10	Wong Chuk Hang Road	2	155	2.55	6.32	0.00	2.43	5.58	0.00	12.52	3.25	0.00	0.00	0.00	0.00	0.00	0.00	76.51	0.00	0.24	0.00	0.00	0.15	0.15	0.00	0.59	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.79	0.00	1.092	0.022
11	Wong Chuk Hang Road	2	120	2.56	6.53	0.00	3.14	0.00	0.00	16.17	4.19	0.00	0.00	0.00	0.00	0.00	0.00	74.12	0.00	0.24	0.00	0.00	0.20	0.00	0.00	0.76	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.77	0.00	1.067	0.023
12	Wong Chuk Hang Road(flyover)	3	235	1.85	6.08	0.00	6.19	8.93	0.00	7.00	2.32	0.25	1.64	0.00	0.00	0.00	0.00	10.65	1.49	0.11	0.00	0.00	0.24	0.24	0.00	0.26	0.12	0.02	0.08	0.00	0.00	0.00	0.00	0.12	0.03	0.464	0.012
13	Wong Chuk Hang Road	2	125	0.35	4.70	0.00	3.02	0.00	0.00	0.00	24.15	0.57	0.00	0.00	0.00	0.00	22.88	260.91	0.00	0.03	0.00	0.00	0.19	0.00	0.00	0.00	1.91	0.06	0.00	0.00	0.00	0.00	0.18	2.70	0.00	3.166	0.051
14	Wong Chuk Hang Road	2	55	1.60	7.13	0.00	6.86	0.00	0.00	0.00	18.29	0.00	0.00	0.00	0.00	0.00	0.00	107.81	0.00	0.15	0.00	0.00	0.43	0.00	0.00	0.00	1.45	0.00	0.00	0.00	0.00	0.00	0.00	1.11	0.00	1.417	0.031
15	Wong Chuk Hang Road	2	310	1.98	6.95	0.00	6.08	8.36	0.00	6.26	4.87	0.46	1.33	2.94	0.00	0.00	0.00	47.82	1.14	0.18	0.00	0.00	0.38	0.23	0.00	0.30	0.39	0.05	0.06	0.22	0.00	0.00	0.00	0.49	0.03	0.882	0.023
16	Nam Long Shan Road	1	190	2.44	6.79	0.00	2.19	5.06	0.00	11.21	5.26	0.42	2.28	5.44	0.00	0.00	0.00	68.47	1.00	0.27	0.00	0.00	0.15	0.16	0.00	0.62	0.53	0.05	0.11	0.41	0.00	0.00	0.00	0.77	0.04	1.106	0.031
17	Heung Yip Road	1	95	2.82	4.53	0.00	8.76	10.11	0.00	0.00	0.00	0.83	4.57	0.00	0.00	0.00	0.00	0.00	2.00	0.32	0.00	0.00	0.60	0.31	0.00	0.00	0.00	0.10	0.23	0.00	0.00	0.00	0.00	0.00	0.08	0.336	0.016
18	Heung Yip Road	1	110	2.88	3.91	0.00	7.56	8.73	0.00	0.00	0.00	0.72	3.94	9.39	0.00	0.00	0.00	0.00	1.73	0.32	0.00	0.00	0.51	0.27	0.00	0.00	0.00	0.08	0.20	0.71	0.00	0.00	0.00	0.00	0.07	0.389	0.022
19	Heung Yip Road	1	155	2.67	4.16	0.00	8.05	12.40	0.00	13.74	0.00	1.02	2.80	6.67	0.00	0.00	0.00	0.00	1.23	0.30	0.00	0.00	0.55	0.38	0.00	0.77	0.00	0.12	0.14	0.50	0.00	0.00	0.00	0.00	0.05	0.527	0.028
20	Yip Fat St	1	65	2.62	3.31	0.00	6.40	14.78	0.00	0.00	0.00	1.22	6.67	0.00	0.00	0.00	0.00	0.00	2.93	0.29	0.00	0.00	0.44	0.45	0.00	0.00	0.00	0.14	0.33	0.00	0.00	0.00	0.00	0.00	0.11	0.379	0.018
21	Heung Yip Road	1	90	2.71	4.78	0.00	9.24	10.67	0.00	0.00	0.00	0.88	4.82	0.00	0.00	0.00	0.00	0.00	2.11	0.30	0.00	0.00	0.63	0.33	0.00	0.00	0.00	0.10	0.24	0.00	0.00	0.00	0.00	0.00	0.08	0.352	0.017
22	Yip Fat St	1	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
23	Yip Fat St	1	55	2.66	3.91	0.00	7.56	17.47	0.00	0.00	0.00	1.44	7.89	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.51	0.54	0.00	0.00	0.00	0.16	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.409	0.019
24	Heung Yip Road	1	85	2.86	2.53	0.00	9.79	11.30	0.00	0.00	0.00	0.93	5.10	0.00	0.00	0.00	0.00	0.00	2.24	0.32	0.00	0.00	0.67	0.35	0.00	0.00	0.00	0.11	0.25	0.00	0.00	0.00	0.00	0.00	0.08	0.348	0.018
25	Heung Yip Road	1	90	2.98	4.78	0.00	4.62	10.67	0.00	0.00	0.00	0.88	4.82	0.00	0.00	0.00	0.00	0.00	2.11	0.33	0.00	0.00	0.31	0.33	0.00	0.00	0.00	0.10	0.24	0.00	0.00	0.00	0.00	0.00	0.08	0.309	0.014
26	Heung Yip Road	1	120	3.04	5.38	0.00	6.93	8.01	0.00	0.00	0.00	0.66	3.61	0.00	0.00	0.00	0.00	0.00	1.59	0.34	0.00	0.00	0.47	0.25	0.00	0.00	0.00	0.08	0.18	0.00	0.00	0.00	0.00	0.00	0.06	0.292	0.014
27	Heung Yip Road	1	30	3.25	7.17	0.00	13.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.243	0.013
28	Heung Yip Road	1	60	2.44	3.59	0.00	6.93	16.01	0.00	0.00	0.00	1.32	7.23	0.00	0.00	0.00	0.00	0.00	3.17	0.27	0.00	0.00	0.47	0.49	0.00	0.00	0.00	0.15	0.36	0.00	0.00	0.00	0.00	0.00	0.12	0.407	0.019
29	Heung Yip Road	1	65	2.62	3.31	0.00	6.40	14.78	0.00	0.00	0.00	1.22	6.67	0.00	0.00	0.00	0.00	0.00	2.93	0.29	0.00	0.00	0.44	0.45	0.00	0.00	0.00	0.14	0.33	0.00	0.00	0.00	0.00	0.00	0.11	0.379	0.018
30	Nam Long Shan Road	1	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.93	0.00	0.00	0.00	0.00	0.00	0.00	325.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.07	0.00	0.00	0.00	0.00	0.00	0.00	3.66	0.00	3.752	0.087
31	Nam Long Shan Road	1	125	3.12	5.16	0.00	3.33	0.00	0.00	0.00	3.99	0.63	3.47	0.00	0.00	0.00	0.00	26.02	1.52	0.35	0.00	0.00	0.23	0.00	0.00	0.00	0.41	0.07	0.17	0.00	0.00	0.00	0.00	0.29	0.06	0.472	0.016
32	Nam Long Shan Road	1	120	3.04	5.38	0.00	3.47	0.00	0.00	0.00	4.16	0.66	3.61	0.00	0.00	0.00	0.00	27.10	1.59	0.34	0.00	0.00	0.24	0.00	0.00	0.00	0.42	0.08	0.18	0.00	0.00	0.00	0.00	0.30	0.06	0.490	0.016
33	Welfare Road	1	15	3.25	14.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.176	0.004
34	Welfare Road	1	5	4.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.049	0.005
35	Shum Wan Road	1	65	2.25	6.62	0.00	6.40	0.00	0.00	0.00	7.68	1.22	6.67	0.00	0.00	0.00	0.00	50.04	0.00	0.25	0.00	0.00	0.44	0.00	0.00	0.00	0.78	0.14	0.33	0.00	0.00	0.00	0.00	0.56	0.00	0.809	0.025
36	Shum Wan Road	1	65	2.25	6.62	0.00	6.40	0.00	0.00	0.00	7.68	1.22	6.67	0.00	0.00	0.00	0.00	50.04	0.00	0.25	0.00	0.00	0.44	0.00	0.00	0.00	0.78	0.14	0.33	0.00	0.00	0.00	0.00	0.56	0.00	0.809	0.025
37	Shum Wan Pier Drive	1	5	4.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.049	0.005
38	Nam Long Shan Road	1	130	3.18	4.96	0.00	3.20	0.00	0.00	0.00	3.84	0.61	3.34	0.00	0.00	0.00	0.00	25.02	1.46	0.36	0.00	0.00	0.22	0.00	0.00	0.00	0.39	0.07	0.17	0.00	0.00	0.00	0.00	0.28	0.06	0.456	0.015
39	Nam Long Shan Road	1	25	3.90	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.125	0.004
40	Nam Long Shan Road	1	30	4.06	7.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.112	0.005
41	Police School Road	1	125	3.12	5.16	0.00	3.33	0.00	0.00	0.00	3.99	0.63	3.47	0.00	0.00	0.00	0.00	26.02	1.52	0.35	0.00	0.00	0.23	0.00	0.00	0.00	0.41	0.07	0.17	0.00	0.00	0.00	0.00	0.29	0.06	0.472	0.016
42#	Police School Road		NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	#VALUE!	#VALUE!

Emission Factors from EMFAC (Type 1 Local Road - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0487	0.4302	0.0000	0.8319	1.9213	0.0000	4.2602	0.9985	0.1581	0.8675	2.0667	0.0000	0.0000	0.0000	6.5051	0.3806
RSP	0.0054	0.0000	0.0000	0.0566	0.0591	0.0000	0.2375	0.1013	0.0181	0.0431	0.1556	0.0000	0.0000	0.0000	0.0731	0.0143

Emission Factors from EMFAC (Type 2 Primary Distributor - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0439	0.3919	0.0000	0.7545	1.7284	0.0000	3.8797	1.0062	0.1428	0.8233	1.8240	0.0000	0.0000	5.7203	5.9297	0.3525
RSP	0.0040	0.0000	0.0000	0.0469	0.0476	0.0000	0.1831	0.0796	0.0141	0.0376	0.1353	0.0000	0.0000	0.0459	0.0613	0.0079

Emission Factors from EMFAC (Type 3 Primary Distributor - 70kph)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0362	0.3177	0.0000	0.7277	1.3996	0.0000	3.2881	1.0909	0.1193	0.7731	0.0000	0.0000	0.0000	0.0000	5.0068	0.3495
RSP	0.0021	0.0000	0.0000	0.0277	0.0379	0.0000	0.1226	0.0577	0.0078	0.0383	0.0000	0.0000	0.0000	0.0000	0.0558	0.0070

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 06-07)

Traffic (Hour: 06-07)

Hour: 06-07				Flow Rate (veh./hr)																% of Total Flow																
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
1	Yip Hing St	1	40	15	5	0	5	5	5	5	0	0	0	0	0	0	0	0	0	37.50	12.50	0.00	12.50	12.50	12.50	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	Tong Bin Lane	1	40	15	5	0	5	5	5	5	0	0	0	0	0	0	0	0	0	37.50	12.50	0.00	12.50	12.50	12.50	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	Tong Bin Lane (near J/Wong Chuk	1	75	25	10	0	5	5	5	10	0	0	0	5	5	5	0	0	0	33.33	13.33	0.00	6.67	6.67	6.67	13.33	0.00	0.00	0.00	6.67	6.67	6.67	0.00	0.00	0.00
4	Yip Kan St	1	105	35	15	0	10	5	5	15	0	5	0	5	5	5	0	0	0	33.33	14.29	0.00	9.52	4.76	4.76	14.29	0.00	4.76	0.00	4.76	4.76	4.76	0.00	0.00	0.00
5	Wong Chuk Hang Road	2	630	275	110	0	50	30	5	10	30	15	15	5	5	5	5	50	20	43.65	17.46	0.00	7.94	4.76	0.79	1.59	4.76	2.38	2.38	0.79	0.79	0.79	0.79	7.94	3.17
6	Wong Chuk Hang Road	2	690	310	120	0	55	30	5	10	35	15	15	5	5	5	5	55	20	44.93	17.39	0.00	7.97	4.35	0.72	1.45	5.07	2.17	2.17	0.72	0.72	0.72	0.72	7.97	2.90
7	Wong Chuk Hang Road	2	310	105	45	0	20	10	0	5	35	5	5	5	5	5	5	55	5	33.87	14.52	0.00	6.45	3.23	0.00	1.61	11.29	1.61	1.61	1.61	1.61	1.61	1.61	17.74	1.61
8	Wong Chuk Hang Road(flyover)	3	405	195	75	0	35	20	5	10	5	10	10	5	5	5	0	10	15	48.15	18.52	0.00	8.64	4.94	1.23	2.47	1.23	2.47	2.47	1.23	1.23	1.23	0.00	2.47	3.70
9	Wong Chuk Hang Road	2	450	240	70	0	15	10	5	10	10	5	5	5	5	5	5	55	5	53.33	15.56	0.00	3.33	2.22	1.11	2.22	2.22	1.11	1.11	1.11	1.11	1.11	1.11	12.22	1.11
10	Wong Chuk Hang Road	2	335	180	50	0	10	5	5	5	10	5	0	5	5	5	5	40	5	53.73	14.93	0.00	2.99	1.49	1.49	1.49	2.99	1.49	0.00	1.49	1.49	1.49	1.49	11.94	1.49
11	Wong Chuk Hang Road	2	265	150	40	0	10	5	5	5	5	0	0	5	0	0	5	30	5	56.60	15.09	0.00	3.77	1.89	1.89	1.89	1.89	0.00	0.00	1.89	0.00	0.00	1.89	11.32	1.89
12	Wong Chuk Hang Road(flyover)	3	495	245	90	0	40	25	5	10	10	15	10	5	5	5	0	15	15	49.49	18.18	0.00	8.08	5.05	1.01	2.02	2.02	3.03	2.02	1.01	1.01	1.01	0.00	3.03	3.03
13	Wong Chuk Hang Road	2	275	20	35	0	10	5	0	0	65	5	5	5	5	5	5	110	0	7.27	12.73	0.00	3.64	1.82	0.00	0.00	23.64	1.82	1.82	1.82	1.82	1.82	1.82	40.00	0.00
14	Wong Chuk Hang Road	2	140	45	20	0	5	5	0	0	15	5	5	5	0	0	5	25	5	32.14	14.29	0.00	3.57	3.57	0.00	0.00	10.71	3.57	3.57	3.57	0.00	0.00	3.57	17.86	3.57
15	Wong Chuk Hang Road	2	635	280	110	0	50	30	5	10	30	15	15	5	5	5	5	50	20	44.09	17.32	0.00	7.87	4.72	0.79	1.57	4.72	2.36	2.36	0.79	0.79	0.79	0.79	7.87	3.15
16	Nam Long Shan Road	1	385	190	60	0	10	10	5	5	20	10	10	5	5	5	5	40	5	49.35	15.58	0.00	2.60	2.60	1.30	1.30	5.19	2.60	2.60	1.30	1.30	1.30	1.30	10.39	1.30
17	Heung Yip Road	1	200	110	15	0	15	10	0	5	0	10	10	5	5	5	0	0	10	55.00	7.50	0.00	7.50	5.00	0.00	2.50	0.00	5.00	5.00	2.50	2.50	2.50	0.00	0.00	5.00
18	Heung Yip Road	1	245	135	20	0	20	15	5	5	0	10	10	5	5	5	0	0	10	55.10	8.16	0.00	8.16	6.12	2.04	2.04	0.00	4.08	4.08	2.04	2.04	2.04	0.00	0.00	4.08
19	Heung Yip Road	1	320	180	25	0	30	15	5	5	0	20	15	5	5	5	0	0	10	56.25	7.81	0.00	9.38	4.69	1.56	1.56	0.00	6.25	4.69	1.56	1.56	1.56	0.00	0.00	3.13
20	Yip Fat St	1	135	75	10	0	10	5	0	5	0	5	5	5	5	5	0	0	5	55.56	7.41	0.00	7.41	3.70	0.00	3.70	0.00	3.70	3.70	3.70	3.70	3.70	0.00	0.00	3.70
21	Heung Yip Road	1	195	105	15	0	15	10	0	5	0	10	10	5	5	5	0	0	10	53.85	7.69	0.00	7.69	5.13	0.00	2.56	0.00	5.13	5.13	2.56	2.56	2.56	0.00	0.00	5.13
22	Yip Fat St	1	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	Yip Fat St	1	110	60	10	0	10	5	0	5	0	5	5	5	0	0	0	0	5	54.55	9.09	0.00	9.09	4.55	0.00	4.55	0.00	4.55	4.55	4.55	0.00	0.00	0.00	0.00	4.55
24	Heung Yip Road	1	190	105	10	0	15	10	0	5	0	10	10	5	5	5	0	0	10	55.26	5.26	0.00	7.89	5.26	0.00	2.63	0.00	5.26	5.26	2.63	2.63	2.63	0.00	0.00	5.26
25	Heung Yip Road	1	175	110	20	0	10	5	0	5	0	5	5	5	0	0	0	5	5	62.86	11.43	0.00	5.71	2.86	0.00	2.86	0.00	2.86	2.86	2.86	0.00	0.00	0.00	2.86	2.86
26	Heung Yip Road	1	275	160	30	0	15	10	5	5	0	10	10	5	5	5	0	5	10	58.18	10.91	0.00	5.45	3.64	1.82	1.82	0.00	3.64	3.64	1.82	1.82	1.82	0.00	1.82	3.64
27	Heung Yip Road	1	75	45	5	0	5	5	0	0	0	5	5	0	0	0	0	0	5	60.00	6.67	0.00	6.67	6.67	0.00	0.00	0.00	6.67	6.67	0.00	0.00	0.00	0.00	0.00	6.67
28	Heung Yip Road	1	125	65	10	0	10	5	0	5	0	5	5	5	5	5	0	0	5	52.00	8.00	0.00	8.00	4.00	0.00	4.00	0.00	4.00	4.00	4.00	4.00	4.00	0.00	0.00	4.00
29	Heung Yip Road	1	130	70	10	0	10	5	0	5	0	5	5	5	5	5	0	0	5	53.85	7.69	0.00	7.69	3.85	0.00	3.85	0.00	3.85	3.85	3.85	3.85	3.85	0.00	0.00	3.85
30	Nam Long Shan Road	1	15	0	0	0	0	0	0	0	5	0	0	0	0	0	0	10	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.33	0.00	0.00	0.00	0.00	0.00	0.00	66.67	0.00
31	Nam Long Shan Road	1	285	170	35	0	10	5	0	5	5	10	10	5	5	5	0	15	5	59.65	12.28	0.00	3.51	1.75	0.00	1.75	1.75	3.51	3.51	1.75	1.75	1.75	0.00	5.26	1.75
32	Nam Long Shan Road	1	260	155	30	0	10	5	0	5	5	10	5	5	5	5	0	15	5	59.62	11.54	0.00	3.85	1.92	0.00	1.92	1.92	3.85	1.92	1.92	1.92	1.92	0.00	5.77	1.92
33	Welfare Road	1	45	25	10	0	5	0	0	0	0	0	0	0	0	0	0	0	5	55.56	22.22	0.00	11.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.11
34	Welfare Road	1	20	15	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	Shum Wan Road	1	155	65	25	0	5	5	0	0	10	10	5	5	5	5	0	10	5	41.94	16.13	0.00	3.23	3.23	0.00	0.00	6.45	6.45	3.23	3.23	3.23	3.23	0.00	6.45	3.23
36	Shum Wan Road	1	165	75	25	0	5	5	0	0	10	10	5	5	5	5	0	10	5	45.45	15.15	0.00	3.03	3.03	0.00	0.00	6.06	6.06	3.03	3.03	3.03	3.03	0.00	6.06	3.03
37	Shum Wan Pier Drive	1	15	10	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66.67	33.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38	Nam Long Shan Road	1	290	175	35	0	10	5	0	5	5	10	10	5	5	5	0	15	5	60.34	12.07	0.00	3.45	1.72	0.00	1.72	1.72	3.45	3.45	1.72	1.72	1.72	0.00	5.17	1.72
39	Nam Long Shan Road	1	70	40	10	0	0	0	0	0	0	5	5	0	0	0	0	5	5	57.14	14.29	0.00	0.00	0.00	0.00	0.00	0.00	7.14	7.14	0.00	0.00	0.00	0.00	7.14	7.14
40	Nam Long Shan Road	1	95	55	10	0	5	0	0	0	5	5	5	0	0	0	0	5	5	57.89	10.53	0.00	5.26	0.00	0.00	0.00	5.26	5.26	5.26	0.00	0.00	0.00	0.00	5.26	5.26
41	Police School Road	1	285	170	35	0	10	5	0	5	5	10	10	5	5	5	0	15	5	59.65	12.28	0.00	3.51	1.75	0.00	1.75	1.75	3.51	3.51	1.75	1.75	1.75	0.00	5.26	1.75
42#	Police School Road		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 06-07)

Emission Factor Calculations (Hour: 00-01)

Hour: 06-07				% of Total Flow x Emission Factor (NOx)																	% of Total Flow x Emission Factor (RSP)																		Composite Emission Factor (g/veh·km)	
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	NOx	RSP
1	Yip Hing St	1	40	1.89	5.60	0.00	10.74	26.29	30.65	53.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.74	0.86	1.85	2.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.283	0.066
2	Tong Bin Lane	1	40	1.89	5.60	0.00	10.74	26.29	30.65	53.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.74	0.86	1.85	2.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.283	0.066
3	Tong Bin Lane (near J/Wong Chuk	1	75	1.68	5.98	0.00	5.73	14.02	16.35	56.69	0.00	0.00	0.00	15.43	31.62	50.21	0.00	0.00	0.00	0.20	0.00	0.00	0.40	0.46	0.99	3.17	0.00	0.00	0.00	1.18	2.12	2.85	0.00	0.00	0.00	1.977	0.114
4	Yip Kan St	1	105	1.68	6.40	0.00	8.18	10.02	11.68	60.74	0.00	0.78	0.00	11.02	22.59	35.86	0.00	0.00	0.00	0.20	0.00	0.00	0.57	0.33	0.71	3.39	0.00	0.10	0.00	0.84	1.52	2.03	0.00	0.00	0.00	1.690	0.097
5	Wong Chuk Hang Road	2	630	1.92	6.85	0.00	5.99	8.23	1.77	6.16	4.79	0.34	1.96	1.45	2.94	4.67	4.54	47.06	1.12	0.18	0.00	0.00	0.37	0.23	0.09	0.29	0.38	0.03	0.09	0.11	0.19	0.22	0.04	0.49	0.03	0.998	0.027
6	Wong Chuk Hang Road	2	690	1.98	6.82	0.00	6.01	7.51	1.61	5.62	5.10	0.31	1.79	1.32	2.69	4.27	4.14	47.26	1.02	0.18	0.00	0.00	0.37	0.21	0.08	0.27	0.40	0.03	0.08	0.10	0.18	0.21	0.03	0.49	0.02	0.975	0.027
7	Wong Chuk Hang Road	2	310	1.49	5.69	0.00	4.87	5.58	0.00	6.26	11.36	0.23	1.33	2.94	5.98	9.50	9.23	105.20	0.57	0.14	0.00	0.00	0.30	0.15	0.00	0.30	0.90	0.02	0.06	0.22	0.39	0.46	0.07	1.09	0.01	1.702	0.041
8	Wong Chuk Hang Road(flyover)	3	405	1.74	5.89	0.00	6.29	6.91	2.30	8.12	1.35	0.29	1.91	1.74	3.56	5.66	0.00	12.36	1.29	0.10	0.00	0.00	0.24	0.19	0.09	0.30	0.07	0.02	0.09	0.17	0.31	0.29	0.00	0.14	0.03	0.594	0.020
9	Wong Chuk Hang Road	2	450	2.35	6.10	0.00	2.51	3.84	2.47	8.62	2.24	0.16	0.91	2.03	4.12	6.54	6.36	72.47	0.39	0.22	0.00	0.00	0.16	0.11	0.12	0.41	0.18	0.02	0.04	0.15	0.27	0.31	0.05	0.75	0.01	1.211	0.028
10	Wong Chuk Hang Road	2	335	2.36	5.85	0.00	2.25	2.58	3.32	5.79	3.00	0.21	0.00	2.72	5.53	8.79	8.54	70.80	0.53	0.22	0.00	0.00	0.14	0.07	0.17	0.27	0.24	0.02	0.00	0.20	0.36	0.42	0.07	0.73	0.01	1.223	0.029
11	Wong Chuk Hang Road	2	265	2.49	5.92	0.00	2.85	3.26	4.20	7.32	1.90	0.00	0.00	3.44	0.00	0.00	10.79	67.13	0.66	0.23	0.00	0.00	0.18	0.09	0.21	0.35	0.15	0.00	0.00	0.26	0.00	0.00	0.09	0.69	0.01	1.100	0.023
12	Wong Chuk Hang Road(flyover)	3	495	1.79	5.78	0.00	5.88	7.07	1.88	6.64	2.20	0.36	1.56	1.43	2.91	4.63	0.00	15.17	1.06	0.10	0.00	0.00	0.22	0.19	0.07	0.25	0.12	0.02	0.08	0.14	0.25	0.24	0.00	0.17	0.02	0.584	0.019
13	Wong Chuk Hang Road	2	275	0.32	4.99	0.00	2.74	3.14	0.00	0.00	23.78	0.26	1.50	3.32	6.74	10.70	10.40	237.18	0.00	0.03	0.00	0.00	0.17	0.09	0.00	0.00	1.88	0.03	0.07	0.25	0.44	0.52	0.08	2.45	0.00	3.051	0.060
14	Wong Chuk Hang Road	2	140	1.41	5.60	0.00	2.69	6.17	0.00	0.00	10.78	0.51	2.94	6.51	0.00	0.00	20.43	105.88	1.26	0.13	0.00	0.00	0.17	0.17	0.00	0.00	0.85	0.05	0.13	0.48	0.00	0.00	0.16	1.09	0.03	1.642	0.033
15	Wong Chuk Hang Road	2	635	1.94	6.79	0.00	5.94	8.17	1.75	6.11	4.75	0.34	1.94	1.44	2.92	4.64	4.50	46.69	1.11	0.18	0.00	0.00	0.37	0.22	0.09	0.29	0.38	0.03	0.09	0.11	0.19	0.22	0.04	0.48	0.02	0.990	0.027
16	Nam Long Shan Road	1	385	2.49	6.98	0.00	2.23	5.46	3.18	5.52	5.43	0.43	2.35	3.01	6.16	9.78	0.00	76.32	0.50	0.30	0.00	0.00	0.15	0.18	0.19	0.31	0.71	0.05	0.12	0.23	0.41	0.55	0.00	0.89	0.02	1.298	0.041
17	Heung Yip Road	1	200	2.77	3.36	0.00	6.45	10.52	0.00	10.63	0.00	0.82	4.52	5.79	11.86	18.83	0.00	0.00	1.93	0.33	0.00	0.00	0.45	0.34	0.00	0.59	0.00	0.10	0.23	0.44	0.80	1.07	0.00	0.00	0.08	0.775	0.044
18	Heung Yip Road	1	245	2.78	3.66	0.00	7.02	12.88	5.00	8.68	0.00	0.67	3.69	4.72	9.68	15.37	0.00	0.00	1.58	0.33	0.00	0.00	0.49	0.42	0.30	0.48	0.00	0.08	0.19	0.36	0.65	0.87	0.00	0.00	0.06	0.757	0.042
19	Heung Yip Road	1	320	2.83	3.50	0.00	8.06	9.86	3.83	6.64	0.00	1.03	4.24	3.62	7.41	11.77	0.00	0.00	1.21	0.34	0.00	0.00	0.56	0.32	0.23	0.37	0.00	0.13	0.22	0.28	0.50	0.67	0.00	0.00	0.05	0.640	0.037
20	Yip Fat St	1	135	2.80	3.32	0.00	6.37	7.79	0.00	15.75	0.00	0.61	3.35	8.57	17.57	27.89	0.00	0.00	1.43	0.33	0.00	0.00	0.44	0.25	0.00	0.88	0.00	0.08	0.17	0.66	1.18	1.58	0.00	0.00	0.06	0.954	0.056
21	Heung Yip Road	1	195	2.71	3.45	0.00	6.61	10.79	0.00	10.90	0.00	0.84	4.64	5.94	12.16	19.31	0.00	0.00	1.98	0.32	0.00	0.00	0.46	0.35	0.00	0.61	0.00	0.11	0.24	0.45	0.82	1.10	0.00	0.00	0.08	0.793	0.045
22	Yip Fat St	1	5	5.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.050	0.006
23	Yip Fat St	1	110	2.75	4.07	0.00	7.81	9.56	0.00	19.33	0.00	0.75	4.11	10.52	0.00	0.00	0.00	0.00	1.75	0.33	0.00	0.00	0.54	0.31	0.00	1.08	0.00	0.09	0.21	0.81	0.00	0.00	0.00	0.00	0.07	0.607	0.034
24	Heung Yip Road	1	190	2.78	2.36	0.00	6.78	11.07	0.00	11.19	0.00	0.87	4.76	6.09	12.48	19.82	0.00	0.00	2.03	0.33	0.00	0.00	0.47	0.36	0.00	0.62	0.00	0.11	0.24	0.47	0.84	1.12	0.00	0.00	0.08	0.802	0.046
25	Heung Yip Road	1	175	3.17	5.12	0.00	4.91	6.01	0.00	12.15	0.00	0.47	2.58	6.61	0.00	0.00	0.00	20.99	1.10	0.38	0.00	0.00	0.34	0.20	0.00	0.68	0.00	0.06	0.13	0.51	0.00	0.00	0.00	0.25	0.04	0.631	0.026
26	Heung Yip Road	1	275	2.93	4.89	0.00	4.69	7.65	4.46	7.73	0.00	0.60	3.29	4.21	8.62	13.69	0.00	13.36	1.40	0.35	0.00	0.00	0.32	0.25	0.27	0.43	0.00	0.07	0.17	0.32	0.58	0.78	0.00	0.16	0.06	0.775	0.038
27	Heung Yip Road	1	75	3.02	2.99	0.00	5.73	14.02	0.00	0.00	0.00	1.10	6.03	0.00	0.00	0.00	0.00	0.00	2.57	0.36	0.00	0.00	0.40	0.46	0.00	0.00	0.00	0.14	0.31	0.00	0.00	0.00	0.00	0.00	0.10	0.355	0.018
28	Heung Yip Road	1	125	2.62	3.59	0.00	6.88	8.41	0.00	17.01	0.00	0.66	3.62	9.26	18.97	30.13	0.00	0.00	1.54	0.31	0.00	0.00	0.48	0.27	0.00	0.95	0.00	0.08	0.19	0.71	1.27	1.71	0.00	0.00	0.06	1.027	0.060
29	Heung Yip Road	1	130	2.71	3.45	0.00	6.61	8.09	0.00	16.35	0.00	0.63	3.48	8.90	18.24	28.97	0.00	0.00	1.48	0.32	0.00	0.00	0.46	0.26	0.00	0.91	0.00	0.08	0.18	0.68	1.23	1.64	0.00	0.00	0.06	0.989	0.058
30	Nam Long Shan Road	1	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.83	0.00	0.00	0.00	0.00	0.00	0.00	489.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.57	0.00	0.00	0.00	0.00	0.00	0.00	5.72	0.00	5.245	0.103
31	Nam Long Shan Road	1	285	3.00	5.50	0.00	3.02	3.69	0.00	7.46	1.83	0.58	3.17	4.06	8.32	13.21	0.00	38.66	0.68	0.36	0.00	0.00	0.21	0.12	0.00	0.42	0.24	0.07	0.16	0.31	0.56	0.75	0.00	0.45	0.03	0.932	0.037
32	Nam Long Shan Road	1	260	3.00	5.17	0.00	3.31	4.05	0.00	8.18	2.01	0.63	1.74	4.45	9.12	14.48	0.00	42.38	0.74	0.36	0.00	0.00	0.23	0.13	0.00	0.46	0.26	0.08	0.09	0.34	0.61	0.82	0.00	0.49	0.03	0.993	0.039
33	Welfare Road	1	45	2.80	9.96	0.00	9.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.29	0.33	0.00	0.00	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.266	0.012
34	Welfare Road	1	20	3.78	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.150	0.005
35	Shum Wan Road	1	155	2.11	7.23	0.00	2.77	6.79	0.00	0.00	6.74	1.06	2.92	7.47	15.30	24.29	0.00	47.39	1.24	0.25	0.00	0.00	0.19	0.22	0.00	0.00	0.89	0.13	0.15	0.57	1.03	1.38	0.00	0.55	0.05	1.253	0.054
36	Shum Wan Road	1	165	2.29	6.79	0.00	2.60	6.37	0.00	0.00	6.33	1.00	2.74	7.01	14.37	22.82	0.00	44.52	1.17	0.27	0.00	0.00	0.18	0.21	0.00	0.00	0.83	0.12	0.14	0.54	0.97	1.29	0.00	0.52	0.05	1.180	0.051
37	Shum Wan Pier Drive	1	15	3.36	14.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.183	0.004
38	Nam Long Shan Road	1	290	3.04	5.41	0.00	2.96	3.63	0.00	7.33	1.80	0.57	3.12	3.99	8.18	12.99	0.00	37.99	0.67	0.36	0.00	0.00	0.21	0.12	0.00	0.41	0.24	0.07	0.16	0.31	0.55	0.74	0.00	0.44	0.03	0.917	0.036
39	Nam Long Shan Road	1	70	2.88	6.40	0.00	0.00	0.00	0.00	0.00	0.00	1.18	6.46	0.00	0.00	0.00	0.00	52.47	2.76	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.33	0.00	0.00	0.00	0.00	0.61	0.11	0.721	0.015
40	Nam Long Shan Road	1	95	2.92	4.72	0.00	4.52	0.00	0.00	0.00	5.50	0.87	4.76	0.00	0.00	0.00	0.00	38.66	2.03	0.35	0.00	0.00	0.31	0.00	0.00	0.00	0.72	0.11	0.24	0.00	0.00	0.00	0.00	0.45	0.08	0.640	0.023
41	Police School Road	1	285	3.00	5.50	0.00	3.02	3.69	0.00	7.46	1.83	0.58	3.17	4.06	8.32	13.21	0.00	38.66	0.68	0.36	0.00	0.00	0.21	0.12	0.00	0.42	0.24	0.07	0.16	0.31	0.56	0.75	0.00	0.45	0.03	0.932	0.037
42#	Police School Road		NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	#VALUE!	#VALUE!

Emission Factors from EMFAC (Type 1 Local Road - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0504	0.4482	0.0000	0.8594	2.1034	2.4524	4.2519	1.0450	0.1645	0.9043	2.3148	4.7429	7.5314	0.0000	7.3457	0.3859
RSP	0.0060	0.0000	0.0000	0.0595	0.0685	0.1481	0.2375	0.1372	0.0205	0.0463	0.1772	0.3187	0.4271	0.0000	0.0858	0.0156

Emission Factors from EMFAC (Type 2 Primary Distributor - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0440	0.3922	0.0000	0.7544	1.7283	2.2252	3.8795	1.0060	0.1428	0.8232	1.8239	3.7080	5.8870	5.7200	5.9294	0.3524
RSP	0.0040	0.0000	0.0000	0.0469	0.0476	0.1122	0.1831	0.0796	0.0141	0.0376	0.1353	0.2436	0.2834	0.0459	0.0613	0.0079

Emission Factors from EMFAC (Type 3 Primary Distributor - 70kph)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0362	0.3179	0.0000	0.7276	1.3996	1.8601	3.2879	1.0907	0.1193	0.7730	1.4122	2.8841	4.5857	0.0000	5.0066	0.3494
RSP	0.0021	0.0000	0.0000	0.0277	0.0379	0.0691	0.1226	0.0577	0.0078	0.0383	0.1362	0.2487	0.2334	0.0000	0.0558	0.0070

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 07-08)

Traffic (Hour: 07-08)

Hour: 07-08				Flow Rate (veh./hr)																% of Total Flow															
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
1	Yip Hing St	1	90	40	10	0	10	10	10	10	0	0	0	0	0	0	0	0	0	44.44	11.11	0.00	11.11	11.11	11.11	11.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	Tong Bin Lane	1	90	40	10	0	10	10	10	10	0	0	0	0	0	0	0	0	0	44.44	11.11	0.00	11.11	11.11	11.11	11.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	Tong Bin Lane (near J/Wong Chuk	1	205	75	30	0	20	10	10	30	0	0	0	10	10	10	0	0	0	36.59	14.63	0.00	9.76	4.88	4.88	14.63	0.00	0.00	0.00	4.88	4.88	4.88	0.00	0.00	0.00
4	Yip Kan St	1	265	100	35	0	25	20	10	35	0	10	0	10	10	10	0	0	0	37.74	13.21	0.00	9.43	7.55	3.77	13.21	0.00	3.77	0.00	3.77	3.77	3.77	0.00	0.00	0.00
5	Wong Chuk Hang Road	2	1870	835	335	0	145	80	10	30	100	50	40	20	10	10	10	145	50	44.65	17.91	0.00	7.75	4.28	0.53	1.60	5.35	2.67	2.14	1.07	0.53	0.53	0.53	7.75	2.67
6	Wong Chuk Hang Road	2	2100	945	375	0	165	95	10	35	110	50	40	20	10	10	10	165	60	45.00	17.86	0.00	7.86	4.52	0.48	1.67	5.24	2.38	1.90	0.95	0.48	0.48	0.48	7.86	2.86
7	Wong Chuk Hang Road	2	930	320	130	0	50	30	0	10	110	20	20	20	10	10	10	170	20	34.41	13.98	0.00	5.38	3.23	0.00	1.08	11.83	2.15	2.15	2.15	1.08	1.08	1.08	18.28	2.15
8	Wong Chuk Hang Road(flyover)	3	1215	595	235	0	105	60	10	20	20	30	30	10	10	10	0	40	40	48.97	19.34	0.00	8.64	4.94	0.82	1.65	1.65	2.47	2.47	0.82	0.82	0.82	0.00	3.29	3.29
9	Wong Chuk Hang Road	2	1315	735	205	0	40	20	10	30	30	10	10	10	10	10	20	165	10	55.89	15.59	0.00	3.04	1.52	0.76	2.28	2.28	0.76	0.76	0.76	0.76	0.76	1.52	12.55	0.76
10	Wong Chuk Hang Road	2	1015	555	155	0	30	20	10	20	30	10	0	10	10	10	20	125	10	54.68	15.27	0.00	2.96	1.97	0.99	1.97	2.96	0.99	0.00	0.99	0.99	0.99	1.97	12.32	0.99
11	Wong Chuk Hang Road	2	805	460	130	0	20	10	10	20	20	0	0	10	0	0	20	95	10	57.14	16.15	0.00	2.48	1.24	1.24	2.48	2.48	0.00	0.00	1.24	0.00	0.00	2.48	11.80	1.24
12	Wong Chuk Hang Road(flyover)	3	1490	740	285	0	125	70	10	30	30	40	30	10	10	10	0	50	50	49.66	19.13	0.00	8.39	4.70	0.67	2.01	2.01	2.68	2.01	0.67	0.67	0.67	0.00	3.36	3.36
13	Wong Chuk Hang Road	2	795	55	100	0	20	10	0	0	200	20	10	10	10	10	20	330	0	6.92	12.58	0.00	2.52	1.26	0.00	0.00	25.16	2.52	1.26	1.26	1.26	1.26	2.52	41.51	0.00
14	Wong Chuk Hang Road	2	395	135	60	0	20	10	0	0	50	10	10	10	0	0	10	70	10	34.18	15.19	0.00	5.06	2.53	0.00	0.00	12.66	2.53	2.53	2.53	0.00	0.00	2.53	17.72	2.53
15	Wong Chuk Hang Road	2	1895	850	335	0	145	85	10	30	100	50	40	20	10	10	10	150	50	44.85	17.68	0.00	7.65	4.49	0.53	1.58	5.28	2.64	2.11	1.06	0.53	0.53	0.53	7.92	2.64
16	Nam Long Shan Road	1	1170	570	185	0	35	20	10	20	70	30	30	20	10	10	20	120	20	48.72	15.81	0.00	2.99	1.71	0.85	1.71	5.98	2.56	2.56	1.71	0.85	0.85	1.71	10.26	1.71
17	Heung Yip Road	1	590	340	45	0	50	30	0	10	0	35	25	10	10	10	0	0	25	57.63	7.63	0.00	8.47	5.08	0.00	1.69	0.00	5.93	4.24	1.69	1.69	1.69	0.00	0.00	4.24
18	Heung Yip Road	1	735	425	55	0	60	40	10	10	0	35	35	20	10	10	0	0	25	57.82	7.48	0.00	8.16	5.44	1.36	1.36	0.00	4.76	4.76	2.72	1.36	1.36	0.00	0.00	3.40
19	Heung Yip Road	1	960	550	75	0	80	50	10	20	0	55	45	20	10	10	0	0	35	57.29	7.81	0.00	8.33	5.21	1.04	2.08	0.00	5.73	4.69	2.08	1.04	1.04	0.00	0.00	3.65
20	Yip Fat St	1	410	230	30	0	30	20	0	10	0	20	20	10	10	10	0	0	20	56.10	7.32	0.00	7.32	4.88	0.00	2.44	0.00	4.88	4.88	2.44	2.44	2.44	0.00	0.00	4.88
21	Heung Yip Road	1	555	320	45	0	45	30	0	10	0	25	25	10	10	10	0	0	25	57.66	8.11	0.00	8.11	5.41	0.00	1.80	0.00	4.50	4.50	1.80	1.80	1.80	0.00	0.00	4.50
22	Yip Fat St	1	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	Yip Fat St	1	330	180	30	0	30	20	0	10	0	20	20	10	0	0	0	0	10	54.55	9.09	0.00	9.09	6.06	0.00	3.03	0.00	6.06	6.06	3.03	0.00	0.00	0.00	0.00	3.03
24	Heung Yip Road	1	545	320	35	0	45	30	0	10	0	25	25	10	10	10	0	0	25	58.72	6.42	0.00	8.26	5.50	0.00	1.83	0.00	4.59	4.59	1.83	1.83	1.83	0.00	0.00	4.59
25	Heung Yip Road	1	550	345	65	0	30	20	0	10	0	20	20	10	0	0	0	10	20	62.73	11.82	0.00	5.45	3.64	0.00	1.82	0.00	3.64	3.64	1.82	0.00	0.00	0.00	1.82	3.64
26	Heung Yip Road	1	800	490	90	0	40	30	10	10	0	35	30	10	10	10	0	10	25	61.25	11.25	0.00	5.00	3.75	1.25	1.25	0.00	4.38	3.75	1.25	1.25	1.25	0.00	1.25	3.13
27	Heung Yip Road	1	215	135	20	0	20	10	0	0	0	10	10	0	0	0	0	0	10	62.79	9.30	0.00	9.30	4.65	0.00	0.00	0.00	4.65	4.65	0.00	0.00	0.00	0.00	0.00	4.65
28	Heung Yip Road	1	385	210	25	0	30	20	0	10	0	20	20	10	10	10	0	0	20	54.55	6.49	0.00	7.79	5.19	0.00	2.60	0.00	5.19	5.19	2.60	2.60	2.60	0.00	0.00	5.19
29	Heung Yip Road	1	395	215	30	0	30	20	0	10	0	20	20	10	10	10	0	0	20	54.43	7.59	0.00	7.59	5.06	0.00	2.53	0.00	5.06	5.06	2.53	2.53	2.53	0.00	0.00	5.06
30	Nam Long Shan Road	1	55	0	0	0	0	0	0	0	20	0	0	0	0	0	0	35	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.36	0.00	0.00	0.00	0.00	0.00	0.00	63.64	0.00
31	Nam Long Shan Road	1	845	525	100	0	20	10	0	10	20	30	30	10	10	10	10	40	20	62.13	11.83	0.00	2.37	1.18	0.00	1.18	2.37	3.55	3.55	1.18	1.18	1.18	1.18	4.73	2.37
32	Nam Long Shan Road	1	785	485	90	0	20	10	0	10	20	30	20	10	10	10	10	40	20	61.78	11.46	0.00	2.55	1.27	0.00	1.27	2.55	3.82	2.55	1.27	1.27	1.27	1.27	5.10	2.55
33	Welfare Road	1	115	70	25	0	10	0	0	0	0	0	0	0	0	0	0	0	10	60.87	21.74	0.00	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.70
34	Welfare Road	1	50	40	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	Shum Wan Road	1	470	245	75	0	10	5	0	0	25	25	20	10	5	5	10	20	15	52.13	15.96	0.00	2.13	1.06	0.00	0.00	5.32	5.32	4.26	2.13	1.06	1.06	2.13	4.26	3.19
36	Shum Wan Road	1	485	250	80	0	10	5	0	0	25	25	20	10	5	5	15	20	15	51.55	16.49	0.00	2.06	1.03	0.00	0.00	5.15	5.15	4.12	2.06	1.03	1.03	3.09	4.12	3.09
37	Shum Wan Pier Drive	1	80	45	15	0	0	0	0	0	5	5	5	0	0	0	0	5	0	56.25	18.75	0.00	0.00	0.00	0.00	0.00	6.25	6.25	6.25	0.00	0.00	0.00	0.00	6.25	0.00
38	Nam Long Shan Road	1	860	535	100	0	20	10	0	10	20	30	30	10	10	10	15	40	20	62.21	11.63	0.00	2.33	1.16	0.00	1.16	2.33	3.49	3.49	1.16	1.16	1.16	1.74	4.65	2.33
39	Nam Long Shan Road	1	190	125	25	0	0	0	0	0	0	10	10	0	0	0	0	10	10	65.79	13.16	0.00	0.00	0.00	0.00	0.00	0.00	5.26	5.26	0.00	0.00	0.00	0.00	5.26	5.26
40	Nam Long Shan Road	1	260	165	35	0	10	0	0	0	10	10	10	0	0	0	0	10	10	63.46	13.46	0.00	3.85	0.00	0.00	0.00	3.85	3.85	3.85	0.00	0.00	0.00	0.00	3.85	3.85
41	Police School Road	1	845	525	100	0	20	10	0	10	20	30	25	10	10	10	15	40	20	62.13	11.83	0.00	2.37	1.18	0.00	1.18	2.37	3.55	2.96	1.18	1.18	1.18	1.78	4.73	2.37
42#	Police School Road		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 07-08)

Emission Factor Calculations (Hour: 00-01)

Hour: 07-08				% of Total Flow x Emission Factor (NOx)																	% of Total Flow x Emission Factor (RSP)																		Composite Emission Factor (g/veh·km)	
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	NOx	RSP
1	Yip Hing St	1	90	2.44	5.29	0.00	10.47	27.13	32.80	59.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.77	0.96	2.37	4.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.377	0.084
2	Tong Bin Lane	1	90	2.44	5.29	0.00	10.47	27.13	32.80	59.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.77	0.96	2.37	4.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.377	0.084
3	Tong Bin Lane (near J/Wong Chuk	1	205	2.01	6.97	0.00	9.20	11.91	14.40	78.40	0.00	0.00	0.00	12.88	26.16	41.52	0.00	0.00	0.00	0.28	0.00	0.00	0.67	0.42	1.04	5.28	0.00	0.00	0.00	1.00	1.77	2.50	0.00	0.00	0.00	2.034	0.129
4	Yip Kan St	1	265	2.07	6.29	0.00	8.89	18.43	11.14	70.76	0.00	0.66	0.00	9.96	20.23	32.12	0.00	0.00	0.00	0.29	0.00	0.00	0.65	0.65	0.81	4.76	0.00	0.09	0.00	0.77	1.37	1.93	0.00	0.00	0.00	1.806	0.113
5	Wong Chuk Hang Road	2	1870	2.01	7.16	0.00	6.02	7.61	1.23	6.37	5.36	0.39	1.78	1.98	2.02	3.20	3.07	46.31	0.94	0.20	0.00	0.00	0.39	0.22	0.07	0.32	0.44	0.04	0.08	0.15	0.13	0.16	0.02	0.48	0.02	0.954	0.027
6	Wong Chuk Hang Road	2	2100	2.03	7.14	0.00	6.10	8.05	1.09	6.62	5.25	0.35	1.58	1.76	1.79	2.85	2.74	46.92	1.01	0.20	0.00	0.00	0.39	0.23	0.06	0.33	0.43	0.04	0.07	0.13	0.12	0.14	0.02	0.49	0.02	0.953	0.027
7	Wong Chuk Hang Road	2	930	1.55	5.59	0.00	4.17	5.74	0.00	4.27	11.85	0.31	1.79	3.97	4.05	6.43	6.18	109.17	0.76	0.15	0.00	0.00	0.27	0.16	0.00	0.21	0.97	0.03	0.08	0.30	0.27	0.31	0.05	1.14	0.02	1.658	0.040
8	Wong Chuk Hang Road(flyover)	3	1215	1.77	6.14	0.00	6.28	6.90	1.53	5.40	1.79	0.29	1.90	1.16	2.37	3.77	0.00	16.46	1.15	0.10	0.00	0.00	0.24	0.19	0.06	0.20	0.10	0.02	0.09	0.11	0.20	0.19	0.00	0.18	0.02	0.569	0.017
9	Wong Chuk Hang Road	2	1315	2.52	6.23	0.00	2.36	2.70	1.75	9.06	2.29	0.11	0.63	1.41	2.87	4.55	8.74	74.94	0.27	0.25	0.00	0.00	0.15	0.08	0.09	0.45	0.19	0.01	0.03	0.10	0.19	0.22	0.07	0.78	0.01	1.204	0.026
10	Wong Chuk Hang Road	2	1015	2.46	6.11	0.00	2.29	3.50	2.26	7.83	2.96	0.14	0.00	1.82	3.71	5.89	11.33	73.55	0.35	0.24	0.00	0.00	0.15	0.10	0.12	0.39	0.24	0.01	0.00	0.14	0.24	0.29	0.09	0.77	0.01	1.242	0.028
11	Wong Chuk Hang Road	2	805	2.57	6.46	0.00	1.93	2.21	2.85	9.87	2.49	0.00	0.00	2.30	0.00	0.00	14.28	70.48	0.44	0.25	0.00	0.00	0.12	0.06	0.15	0.49	0.20	0.00	0.00	0.17	0.00	0.00	0.12	0.74	0.01	1.159	0.023
12	Wong Chuk Hang Road(flyover)	3	1490	1.79	6.07	0.00	6.10	6.57	1.25	6.61	2.19	0.32	1.55	0.95	1.93	3.07	0.00	16.78	1.17	0.10	0.00	0.00	0.23	0.18	0.05	0.25	0.12	0.02	0.08	0.09	0.17	0.16	0.00	0.19	0.02	0.563	0.016
13	Wong Chuk Hang Road	2	795	0.31	5.03	0.00	1.95	2.24	0.00	0.00	25.21	0.37	1.05	2.32	4.74	7.52	14.46	247.91	0.00	0.03	0.00	0.00	0.13	0.06	0.00	0.00	2.06	0.04	0.05	0.17	0.31	0.37	0.12	2.59	0.00	3.131	0.059
14	Wong Chuk Hang Road	2	395	1.54	6.07	0.00	3.93	4.50	0.00	0.00	12.69	0.37	2.11	4.68	0.00	0.00	14.55	105.84	0.89	0.15	0.00	0.00	0.25	0.13	0.00	0.00	1.03	0.04	0.10	0.35	0.00	0.00	0.12	1.11	0.02	1.572	0.033
15	Wong Chuk Hang Road	2	1895	2.02	7.07	0.00	5.94	7.98	1.21	6.29	5.29	0.38	1.76	1.95	1.99	3.16	3.03	47.27	0.93	0.20	0.00	0.00	0.38	0.23	0.07	0.31	0.43	0.04	0.08	0.15	0.13	0.15	0.02	0.49	0.02	0.963	0.027
16	Nam Long Shan Road	1	1170	2.67	7.53	0.00	2.82	4.17	2.52	9.16	6.35	0.45	2.57	4.51	4.58	7.27	13.98	85.03	0.68	0.37	0.00	0.00	0.21	0.15	0.18	0.62	0.92	0.06	0.14	0.35	0.31	0.44	0.12	1.03	0.03	1.543	0.049
17	Heung Yip Road	1	590	3.16	3.63	0.00	7.99	12.41	0.00	9.08	0.00	1.04	4.25	4.47	9.09	14.43	0.00	0.00	1.70	0.44	0.00	0.00	0.58	0.44	0.00	0.61	0.00	0.14	0.24	0.35	0.61	0.87	0.00	0.00	0.08	0.713	0.044
18	Heung Yip Road	1	735	3.17	3.57	0.00	7.70	13.29	4.02	7.29	0.00	0.83	4.78	7.18	7.30	11.58	0.00	0.00	1.36	0.44	0.00	0.00	0.56	0.47	0.29	0.49	0.00	0.12	0.27	0.56	0.49	0.70	0.00	0.00	0.06	0.721	0.044
19	Heung Yip Road	1	960	3.15	3.72	0.00	7.86	12.72	3.08	11.16	0.00	1.00	4.70	5.50	5.59	8.87	0.00	0.00	1.46	0.44	0.00	0.00	0.57	0.45	0.22	0.75	0.00	0.14	0.26	0.43	0.38	0.53	0.00	0.00	0.07	0.688	0.042
20	Yip Fat St	1	410	3.08	3.49	0.00	6.90	11.91	0.00	13.07	0.00	0.85	4.89	6.44	13.08	20.76	0.00	0.00	1.95	0.43	0.00	0.00	0.50	0.42	0.00	0.88	0.00	0.12	0.27	0.50	0.88	1.25	0.00	0.00	0.09	0.864	0.053
21	Heung Yip Road	1	555	3.17	3.86	0.00	7.64	13.20	0.00	9.65	0.00	0.79	4.52	4.76	9.66	15.34	0.00	0.00	1.80	0.44	0.00	0.00	0.56	0.47	0.00	0.65	0.00	0.11	0.25	0.37	0.65	0.92	0.00	0.00	0.09	0.744	0.045
22	Yip Fat St	1	10	5.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.055	0.008
23	Yip Fat St	1	330	2.99	4.33	0.00	8.57	14.80	0.00	16.24	0.00	1.06	6.08	8.00	0.00	0.00	0.00	0.00	1.21	0.42	0.00	0.00	0.63	0.52	0.00	1.09	0.00	0.15	0.34	0.62	0.00	0.00	0.00	0.00	0.06	0.633	0.038
24	Heung Yip Road	1	545	3.22	3.06	0.00	7.78	13.44	0.00	9.83	0.00	0.80	4.60	4.84	9.84	15.62	0.00	0.00	1.84	0.45	0.00	0.00	0.57	0.47	0.00	0.66	0.00	0.11	0.26	0.37	0.66	0.94	0.00	0.00	0.09	0.749	0.046
25	Heung Yip Road	1	550	3.44	5.63	0.00	5.14	8.88	0.00	9.74	0.00	0.64	3.65	4.80	0.00	0.00	0.00	15.07	1.46	0.48	0.00	0.00	0.38	0.31	0.00	0.66	0.00	0.09	0.20	0.37	0.00	0.00	0.00	0.18	0.07	0.584	0.027
26	Heung Yip Road	1	800	3.36	5.36	0.00	4.71	9.16	3.69	6.70	0.00	0.77	3.76	3.30	6.70	10.64	0.00	10.36	1.25	0.47	0.00	0.00	0.34	0.32	0.27	0.45	0.00	0.11	0.21	0.26	0.45	0.64	0.00	0.13	0.06	0.698	0.037
27	Heung Yip Road	1	215	3.45	4.43	0.00	8.77	11.36	0.00	0.00	0.00	0.82	4.67	0.00	0.00	0.00	0.00	0.00	1.86	0.48	0.00	0.00	0.64	0.40	0.00	0.00	0.00	0.11	0.26	0.00	0.00	0.00	0.00	0.00	0.09	0.353	0.020
28	Heung Yip Road	1	385	2.99	3.09	0.00	7.35	12.68	0.00	13.92	0.00	0.91	5.21	6.86	13.93	22.11	0.00	0.00	2.08	0.42	0.00	0.00	0.54	0.45	0.00	0.94	0.00	0.13	0.29	0.53	0.94	1.33	0.00	0.00	0.10	0.911	0.057
29	Heung Yip Road	1	395	2.99	3.62	0.00	7.16	12.36	0.00	13.56	0.00	0.89	5.08	6.68	13.57	21.55	0.00	0.00	2.03	0.42	0.00	0.00	0.52	0.44	0.00	0.91	0.00	0.12	0.28	0.52	0.92	1.30	0.00	0.00	0.10	0.895	0.055
30	Nam Long Shan Road	1	55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38.62	0.00	0.00	0.00	0.00	0.00	0.00	527.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.59	0.00	0.00	0.00	0.00	0.00	0.00	6.38	0.00	5.662	0.120
31	Nam Long Shan Road	1	845	3.41	5.64	0.00	2.23	2.89	0.00	6.34	2.51	0.62	3.56	3.12	6.35	10.07	9.68	39.24	0.95	0.48	0.00	0.00	0.16	0.10	0.00	0.43	0.36	0.09	0.20	0.24	0.43	0.61	0.08	0.47	0.04	0.966	0.037
32	Nam Long Shan Road	1	785	3.39	5.46	0.00	2.40	3.11	0.00	6.83	2.71	0.67	2.56	3.36	6.83	10.84	10.42	42.24	1.02	0.47	0.00	0.00	0.18	0.11	0.00	0.46	0.39	0.09	0.14	0.26	0.46	0.65	0.09	0.51	0.05	1.018	0.039
33	Welfare Road	1	115	3.34	10.36	0.00	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.48	0.47	0.00	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.254	0.012
34	Welfare Road	1	50	4.39	9.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.139	0.006
35	Shum Wan Road	1	470	2.86	7.60	0.00	2.01	2.60	0.00	0.00	5.65	0.93	4.27	5.62	5.70	9.05	17.40	35.28	1.28	0.40	0.00	0.00	0.15	0.09	0.00	0.00	0.82	0.13	0.24	0.43	0.39	0.54	0.15	0.43	0.06	1.002	0.038
36	Shum Wan Road	1	485	2.83	7.86	0.00	1.94	2.52	0.00	0.00	5.47	0.90	4.14	5.44	5.53	8.77	25.29	34.19	1.24	0.39	0.00	0.00	0.14	0.09	0.00	0.00	0.79	0.12	0.23	0.42	0.37	0.53	0.21	0.41	0.06	1.061	0.038
37	Shum Wan Pier Drive	1	80	3.09	8.93	0.00	0.00	0.00	0.00	0.00	6.64	1.10	6.27	0.00	0.00	0.00	0.00	51.81	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.96	0.15	0.35	0.00	0.00	0.00	0.00	0.63	0.00	0.778	0.025
38	Nam Long Shan Road	1	860	3.42	5.54	0.00	2.19	2.84	0.00	6.23	2.47	0.61	3.50	3.07	6.23	9.90	14.26	38.56	0.93	0.48	0.00	0.00	0.16	0.10	0.00	0.42	0.36	0.08	0.19	0.24	0.42	0.60	0.12	0.47	0.04	0.997	0.037
39	Nam Long Shan Road	1	190	3.61	6.27	0.00	0.00	0.00	0.00	0.00	0.00	0.92	5.28	0.00	0.00	0.00	0.00	43.63	2.11	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.29	0.00	0.00	0.00	0.00	0.53	0.10	0.618	0.016
40	Nam Long Shan Road	1	260	3.48	6.41	0.00	3.63	0.00	0.00	0.00	4.08	0.67	3.86	0.00	0.00	0.00	0.00	31.88	1.54	0.49	0.00	0.00	0.26	0.00	0.00	0.00	0.59	0.09	0.21	0.00	0.00	0.00	0.00	0.39	0.07	0.556	0.021
41	Police School Road	1	845	3.41	5.64	0.00	2.23	2.89	0.00	6.34	2.51	0.62	2.97	3.12	6.35	10.07	14.51	39.24	0.95	0.48	0.00	0.00	0.16	0.10	0.00	0.43	0.36	0.09	0.17	0.24	0.43	0.61	0.12	0.47	0.04	1.009	0.037
42#	Police School Road		NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	#VALUE!	#VALUE!

Emission Factors from EMFAC (Type 1 Local Road - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0549	0.4765	0.0000	0.9427	2.4414	2.9524	5.3576	1.0620	0.1753	1.0031	2.6397	5.3619	8.5110	8.1765	8.2901	0.4002
RSP	0.0076	0.0000	0.0000	0.0689	0.0862	0.2133	0.3606	0.1537	0.0242	0.0558	0.2041	0.3619	0.5121	0.0682	0.1002	0.0189

Emission Factors from EMFAC (Type 2 Primary Distributor - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0450	0.3998	0.0000	0.7759	1.7785	2.2963	3.9728	1.0022	0.1451	0.8319	1.8481	3.7681	5.9821	5.7475	5.9723	0.3524
RSP	0.0044	0.0000	0.0000	0.0497	0.0507	0.1241	0.1976	0.0817	0.0150	0.0389	0.1377	0.2486	0.2927	0.0463	0.0624	0.0083

Emission Factors from EMFAC (Type 3 Primary Distributor - 70kph)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0361	0.3173	0.0000	0.7265	1.3975	1.8574	3.2831	1.0869	0.1187	0.7708	1.4101	2.8799	4.5790	0.0000	4.9992	0.3479
RSP	0.0021	0.0000	0.0000	0.0277	0.0379	0.0691	0.1226	0.0577	0.0078	0.0383	0.1362	0.2487	0.2334	0.0000	0.0558	0.0070

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 08-09)

Traffic (Hour: 08-09)

Hour: 08-09				Flow Rate (veh./hr)																% of Total Flow															
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
1	Yip Hing St	1	90	40	10	0	10	10	10	10	0	0	0	0	0	0	0	0	0	44.44	11.11	0.00	11.11	11.11	11.11	11.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	Tong Bin Lane	1	90	40	10	0	10	10	10	10	0	0	0	0	0	0	0	0	0	44.44	11.11	0.00	11.11	11.11	11.11	11.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	Tong Bin Lane (near J/Wong Chuk	1	210	80	30	0	20	10	10	30	0	0	0	10	10	10	0	0	0	38.10	14.29	0.00	9.52	4.76	4.76	14.29	0.00	0.00	0.00	4.76	4.76	4.76	0.00	0.00	0.00
4	Yip Kan St	1	290	110	40	0	30	20	10	40	0	10	0	10	10	10	0	0	0	37.93	13.79	0.00	10.34	6.90	3.45	13.79	0.00	3.45	0.00	3.45	3.45	3.45	0.00	0.00	0.00
5	Wong Chuk Hang Road	2	1890	850	340	0	140	80	10	30	100	50	40	20	10	10	10	150	50	44.97	17.99	0.00	7.41	4.23	0.53	1.59	5.29	2.65	2.12	1.06	0.53	0.53	0.53	7.94	2.65
6	Wong Chuk Hang Road	2	2110	960	380	0	160	90	10	30	110	50	40	20	10	10	10	170	60	45.50	18.01	0.00	7.58	4.27	0.47	1.42	5.21	2.37	1.90	0.95	0.47	0.47	0.47	8.06	2.84
7	Wong Chuk Hang Road	2	940	330	130	0	50	30	0	10	110	20	20	20	10	10	10	170	20	35.11	13.83	0.00	5.32	3.19	0.00	1.06	11.70	2.13	2.13	2.13	1.06	1.06	1.06	18.09	2.13
8	Wong Chuk Hang Road(flyover)	3	1220	600	240	0	100	60	10	20	20	30	30	10	10	10	0	40	40	49.18	19.67	0.00	8.20	4.92	0.82	1.64	1.64	2.46	2.46	0.82	0.82	0.82	0.00	3.28	3.28
9	Wong Chuk Hang Road	2	1340	750	210	0	40	20	10	30	30	10	10	10	10	10	20	170	10	55.97	15.67	0.00	2.99	1.49	0.75	2.24	2.24	0.75	0.75	0.75	0.75	0.75	1.49	12.69	0.75
10	Wong Chuk Hang Road	2	1040	570	160	0	30	20	10	20	30	10	0	10	10	10	20	130	10	54.81	15.38	0.00	2.88	1.92	0.96	1.92	2.88	0.96	0.00	0.96	0.96	0.96	1.92	12.50	0.96
11	Wong Chuk Hang Road	2	820	470	130	0	20	10	10	20	20	0	0	10	0	0	20	100	10	57.32	15.85	0.00	2.44	1.22	1.22	2.44	2.44	0.00	0.00	1.22	0.00	0.00	2.44	12.20	1.22
12	Wong Chuk Hang Road(flyover)	3	1500	750	290	0	120	70	10	30	30	40	30	10	10	10	0	50	50	50.00	19.33	0.00	8.00	4.67	0.67	2.00	2.00	2.67	2.00	0.67	0.67	0.67	0.00	3.33	3.33
13	Wong Chuk Hang Road	2	800	50	100	0	20	10	0	0	210	20	10	10	10	10	20	330	0	6.25	12.50	0.00	2.50	1.25	0.00	0.00	26.25	2.50	1.25	1.25	1.25	1.25	2.50	41.25	0.00
14	Wong Chuk Hang Road	2	400	140	60	0	20	10	0	0	50	10	10	10	0	0	10	70	10	35.00	15.00	0.00	5.00	2.50	0.00	0.00	12.50	2.50	2.50	2.50	0.00	0.00	2.50	17.50	2.50
15	Wong Chuk Hang Road	2	1900	860	340	0	140	80	10	30	100	50	40	20	10	10	10	150	50	45.26	17.89	0.00	7.37	4.21	0.53	1.58	5.26	2.63	2.11	1.05	0.53	0.53	0.53	7.89	2.63
16	Nam Long Shan Road	1	1180	580	190	0	30	20	10	20	70	30	30	20	10	10	20	120	20	49.15	16.10	0.00	2.54	1.69	0.85	1.69	5.93	2.54	2.54	1.69	0.85	0.85	1.69	10.17	1.69
17	Heung Yip Road	1	650	380	50	0	50	30	0	10	0	40	30	10	10	10	0	0	30	58.46	7.69	0.00	7.69	4.62	0.00	1.54	0.00	6.15	4.62	1.54	1.54	1.54	0.00	0.00	4.62
18	Heung Yip Road	1	800	470	60	0	60	40	10	10	0	40	40	20	10	10	0	0	30	58.75	7.50	0.00	7.50	5.00	1.25	1.25	0.00	5.00	5.00	2.50	1.25	1.25	0.00	0.00	3.75
19	Heung Yip Road	1	1040	610	80	0	80	50	10	20	0	60	50	20	10	10	0	0	40	58.65	7.69	0.00	7.69	4.81	0.96	1.92	0.00	5.77	4.81	1.92	0.96	0.96	0.00	0.00	3.85
20	Yip Fat St	1	430	250	30	0	30	20	0	10	0	20	20	10	10	10	0	0	20	58.14	6.98	0.00	6.98	4.65	0.00	2.33	0.00	4.65	4.65	2.33	2.33	2.33	0.00	0.00	4.65
21	Heung Yip Road	1	620	360	50	0	50	30	0	10	0	30	30	10	10	10	0	0	30	58.06	8.06	0.00	8.06	4.84	0.00	1.61	0.00	4.84	4.84	1.61	1.61	1.61	0.00	0.00	4.84
22	Yip Fat St	1	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	Yip Fat St	1	350	200	30	0	30	20	0	10	0	20	20	10	0	0	0	0	10	57.14	8.57	0.00	8.57	5.71	0.00	2.86	0.00	5.71	5.71	2.86	0.00	0.00	0.00	0.00	2.86
24	Heung Yip Road	1	610	360	40	0	50	30	0	10	0	30	30	10	10	10	0	0	30	59.02	6.56	0.00	8.20	4.92	0.00	1.64	0.00	4.92	4.92	1.64	1.64	1.64	0.00	0.00	4.92
25	Heung Yip Road	1	590	380	70	0	30	20	0	10	0	20	20	10	0	0	0	10	20	64.41	11.86	0.00	5.08	3.39	0.00	1.69	0.00	3.39	3.39	1.69	0.00	0.00	0.00	1.69	3.39
26	Heung Yip Road	1	880	550	100	0	40	30	10	10	0	40	30	10	10	10	0	10	30	62.50	11.36	0.00	4.55	3.41	1.14	1.14	0.00	4.55	3.41	1.14	1.14	1.14	0.00	1.14	3.41
27	Heung Yip Road	1	230	150	20	0	20	10	0	0	0	10	10	0	0	0	0	0	10	65.22	8.70	0.00	8.70	4.35	0.00	0.00	0.00	4.35	4.35	0.00	0.00	0.00	0.00	0.00	4.35
28	Heung Yip Road	1	420	240	30	0	30	20	0	10	0	20	20	10	10	10	0	0	20	57.14	7.14	0.00	7.14	4.76	0.00	2.38	0.00	4.76	4.76	2.38	2.38	2.38	0.00	0.00	4.76
29	Heung Yip Road	1	420	240	30	0	30	20	0	10	0	20	20	10	10	10	0	0	20	57.14	7.14	0.00	7.14	4.76	0.00	2.38	0.00	4.76	4.76	2.38	2.38	2.38	0.00	0.00	4.76
30	Nam Long Shan Road	1	60	0	0	0	0	0	0	0	20	0	0	0	0	0	0	40	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.33	0.00	0.00	0.00	0.00	0.00	0.00	66.67	0.00
31	Nam Long Shan Road	1	920	590	110	0	20	10	0	10	20	30	30	10	10	10	10	40	20	64.13	11.96	0.00	2.17	1.09	0.00	1.09	2.17	3.26	3.26	1.09	1.09	1.09	1.09	4.35	2.17
32	Nam Long Shan Road	1	850	540	100	0	20	10	0	10	20	30	20	10	10	10	10	40	20	63.53	11.76	0.00	2.35	1.18	0.00	1.18	2.35	3.53	2.35	1.18	1.18	1.18	1.18	4.71	2.35
33	Welfare Road	1	130	80	30	0	10	0	0	0	0	0	0	0	0	0	0	0	10	61.54	23.08	0.00	7.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.69
34	Welfare Road	1	50	40	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	Shum Wan Road	1	490	255	80	0	10	5	0	0	30	25	20	10	5	5	10	20	15	52.04	16.33	0.00	2.04	1.02	0.00	0.00	6.12	5.10	4.08	2.04	1.02	1.02	2.04	4.08	3.06
36	Shum Wan Road	1	540	285	90	0	10	5	0	0	30	25	20	10	5	5	15	25	15	52.78	16.67	0.00	1.85	0.93	0.00	0.00	5.56	4.63	3.70	1.85	0.93	0.93	2.78	4.63	2.78
37	Shum Wan Pier Drive	1	90	50	15	0	0	0	0	0	5	5	5	0	0	0	0	5	5	55.56	16.67	0.00	0.00	0.00	0.00	0.00	5.56	5.56	5.56	0.00	0.00	0.00	0.00	5.56	5.56
38	Nam Long Shan Road	1	935	600	110	0	20	10	0	10	20	30	30	10	10	10	15	40	20	64.17	11.76	0.00	2.14	1.07	0.00	1.07	2.14	3.21	3.21	1.07	1.07	1.07	1.60	4.28	2.14
39	Nam Long Shan Road	1	210	140	30	0	0	0	0	0	0	10	10	0	0	0	0	10	10	66.67	14.29	0.00	0.00	0.00	0.00	0.00	0.00	4.76	4.76	0.00	0.00	0.00	0.00	4.76	4.76
40	Nam Long Shan Road	1	290	190	40	0	10	0	0	0	10	10	10	0	0	0	0	10	10	65.52	13.79	0.00	3.45	0.00	0.00	0.00	3.45	3.45	3.45	0.00	0.00	0.00	0.00	3.45	3.45
41	Police School Road	1	925	590	110	0	20	10	0	10	20	30	30	10	10	10	15	40	20	63.78	11.89	0.00	2.16	1.08	0.00	1.08	2.16	3.24	3.24	1.08	1.08	1.08	1.62	4.32	2.16
42#	Police School Road		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 08-09)

Emission Factor Calculations (Hour: 00-01)

Hour: 08-09				% of Total Flow x Emission Factor (NOx)																	% of Total Flow x Emission Factor (RSP)																		Composite Emission Factor (g/veh·km)	
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	NOx	RSP
1	Yip Hing St	1	90	2.43	5.28	0.00	10.46	27.09	32.80	59.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.77	0.96	2.37	4.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.376	0.084
2	Tong Bin Lane	1	90	2.43	5.28	0.00	10.46	27.09	32.80	59.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.77	0.96	2.37	4.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.376	0.084
3	Tong Bin Lane (near J/Wong Chuk	1	210	2.09	6.79	0.00	8.97	11.61	14.06	76.50	0.00	0.00	0.00	12.55	25.50	40.47	0.00	0.00	0.00	0.29	0.00	0.00	0.66	0.41	1.02	5.16	0.00	0.00	0.00	0.97	1.72	2.44	0.00	0.00	0.00	1.985	0.127
4	Yip Kan St	1	290	2.08	6.56	0.00	9.74	16.82	10.18	73.86	0.00	0.60	0.00	9.09	18.46	29.31	0.00	0.00	0.00	0.29	0.00	0.00	0.71	0.59	0.74	4.98	0.00	0.08	0.00	0.70	1.25	1.77	0.00	0.00	0.00	1.767	0.111
5	Wong Chuk Hang Road	2	1890	2.05	7.28	0.00	5.83	7.67	1.21	6.38	5.28	0.39	1.77	2.01	2.06	3.27	3.08	48.08	0.96	0.21	0.00	0.00	0.38	0.22	0.07	0.33	0.45	0.04	0.08	0.15	0.14	0.16	0.02	0.51	0.03	0.973	0.028
6	Wong Chuk Hang Road	2	2110	2.08	7.28	0.00	5.97	7.73	1.09	5.71	5.20	0.35	1.59	1.80	1.85	2.93	2.75	48.81	1.04	0.21	0.00	0.00	0.39	0.23	0.06	0.29	0.45	0.04	0.08	0.14	0.12	0.15	0.02	0.52	0.03	0.962	0.027
7	Wong Chuk Hang Road	2	940	1.60	5.59	0.00	4.19	5.78	0.00	4.27	11.68	0.31	1.78	4.04	4.14	6.58	6.18	109.57	0.78	0.16	0.00	0.00	0.27	0.17	0.00	0.22	1.00	0.03	0.08	0.30	0.28	0.33	0.05	1.16	0.02	1.665	0.041
8	Wong Chuk Hang Road(flyover)	3	1220	1.77	6.23	0.00	5.95	6.86	1.52	5.37	1.78	0.29	1.89	1.15	2.36	3.75	0.00	16.37	1.13	0.10	0.00	0.00	0.23	0.19	0.06	0.20	0.09	0.02	0.09	0.11	0.20	0.19	0.00	0.18	0.02	0.564	0.017
9	Wong Chuk Hang Road	2	1340	2.55	6.34	0.00	2.35	2.70	1.71	8.99	2.23	0.11	0.63	1.42	2.91	4.61	8.67	76.86	0.27	0.26	0.00	0.00	0.15	0.08	0.09	0.46	0.19	0.01	0.03	0.11	0.19	0.23	0.07	0.82	0.01	1.224	0.027
10	Wong Chuk Hang Road	2	1040	2.50	6.22	0.00	2.27	3.48	2.21	7.72	2.88	0.14	0.00	1.83	3.74	5.94	11.18	75.73	0.35	0.25	0.00	0.00	0.15	0.10	0.12	0.39	0.25	0.01	0.00	0.14	0.25	0.30	0.09	0.80	0.01	1.262	0.029
11	Wong Chuk Hang Road	2	820	2.62	6.41	0.00	1.92	2.21	2.80	9.80	2.43	0.00	0.00	2.32	0.00	0.00	14.18	73.88	0.44	0.26	0.00	0.00	0.12	0.06	0.15	0.50	0.21	0.00	0.00	0.17	0.00	0.00	0.11	0.78	0.01	1.190	0.024
12	Wong Chuk Hang Road(flyover)	3	1500	1.80	6.12	0.00	5.80	6.51	1.24	6.56	2.17	0.31	1.54	0.94	1.92	3.05	0.00	16.64	1.15	0.10	0.00	0.00	0.22	0.18	0.05	0.25	0.12	0.02	0.08	0.09	0.17	0.16	0.00	0.19	0.02	0.558	0.016
13	Wong Chuk Hang Road	2	800	0.29	5.06	0.00	1.97	2.26	0.00	0.00	26.19	0.37	1.05	2.37	4.87	7.73	14.53	249.91	0.00	0.03	0.00	0.00	0.13	0.07	0.00	0.00	2.25	0.04	0.05	0.18	0.32	0.39	0.12	2.65	0.00	3.166	0.062
14	Wong Chuk Hang Road	2	400	1.60	6.07	0.00	3.94	4.53	0.00	0.00	12.47	0.37	2.10	4.75	0.00	0.00	14.53	106.02	0.91	0.16	0.00	0.00	0.26	0.13	0.00	0.00	1.07	0.04	0.10	0.36	0.00	0.00	0.12	1.13	0.03	1.573	0.034
15	Wong Chuk Hang Road	2	1900	2.07	7.24	0.00	5.80	7.63	1.21	6.34	5.25	0.38	1.77	2.00	2.05	3.25	3.06	47.83	0.96	0.21	0.00	0.00	0.38	0.22	0.07	0.32	0.45	0.04	0.08	0.15	0.14	0.16	0.02	0.51	0.03	0.968	0.028
16	Nam Long Shan Road	1	1180	2.69	7.66	0.00	2.39	4.13	2.50	9.08	6.28	0.44	2.54	4.47	4.54	7.20	13.84	84.11	0.67	0.38	0.00	0.00	0.18	0.15	0.18	0.61	0.91	0.06	0.14	0.35	0.31	0.43	0.12	1.02	0.03	1.526	0.049
17	Heung Yip Road	1	650	3.20	3.66	0.00	7.24	11.25	0.00	8.24	0.00	1.07	4.62	4.06	8.24	13.08	0.00	0.00	1.84	0.45	0.00	0.00	0.53	0.40	0.00	0.56	0.00	0.15	0.26	0.31	0.56	0.79	0.00	0.00	0.09	0.665	0.041
18	Heung Yip Road	1	800	3.22	3.57	0.00	7.06	12.19	3.69	6.69	0.00	0.87	5.00	6.59	6.69	10.62	0.00	0.00	1.49	0.45	0.00	0.00	0.52	0.43	0.27	0.45	0.00	0.12	0.28	0.51	0.45	0.64	0.00	0.00	0.07	0.677	0.042
19	Heung Yip Road	1	1040	3.21	3.66	0.00	7.24	11.72	2.84	10.30	0.00	1.00	4.81	5.07	5.15	8.17	0.00	0.00	1.53	0.45	0.00	0.00	0.53	0.41	0.21	0.69	0.00	0.14	0.27	0.39	0.35	0.49	0.00	0.00	0.07	0.647	0.040
20	Yip Fat St	1	430	3.18	3.32	0.00	6.57	11.34	0.00	12.45	0.00	0.81	4.66	6.13	12.45	19.76	0.00	0.00	1.85	0.44	0.00	0.00	0.48	0.40	0.00	0.84	0.00	0.11	0.26	0.47	0.84	1.19	0.00	0.00	0.09	0.825	0.051
21	Heung Yip Road	1	620	3.18	3.83	0.00	7.60	11.80	0.00	8.64	0.00	0.84	4.84	4.25	8.64	13.71	0.00	0.00	1.93	0.44	0.00	0.00	0.56	0.42	0.00	0.58	0.00	0.12	0.27	0.33	0.58	0.83	0.00	0.00	0.09	0.693	0.042
22	Yip Fat St	1	10	5.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.055	0.008
23	Yip Fat St	1	350	3.13	4.07	0.00	8.07	13.93	0.00	15.30	0.00	0.99	5.72	7.53	0.00	0.00	0.00	0.00	1.14	0.44	0.00	0.00	0.59	0.49	0.00	1.03	0.00	0.14	0.32	0.58	0.00	0.00	0.00	0.00	0.05	0.599	0.036
24	Heung Yip Road	1	610	3.23	3.12	0.00	7.72	11.99	0.00	8.78	0.00	0.85	4.92	4.32	8.78	13.93	0.00	0.00	1.96	0.45	0.00	0.00	0.56	0.42	0.00	0.59	0.00	0.12	0.27	0.33	0.59	0.84	0.00	0.00	0.09	0.696	0.043
25	Heung Yip Road	1	590	3.53	5.64	0.00	4.79	8.27	0.00	9.08	0.00	0.59	3.39	4.47	0.00	0.00	0.00	14.02	1.35	0.49	0.00	0.00	0.35	0.29	0.00	0.61	0.00	0.08	0.19	0.35	0.00	0.00	0.00	0.17	0.06	0.551	0.026
26	Heung Yip Road	1	880	3.42	5.40	0.00	4.28	8.31	3.35	6.08	0.00	0.79	3.41	3.00	6.08	9.66	0.00	9.40	1.36	0.48	0.00	0.00	0.31	0.29	0.24	0.41	0.00	0.11	0.19	0.23	0.41	0.58	0.00	0.11	0.06	0.646	0.034
27	Heung Yip Road	1	230	3.57	4.13	0.00	8.19	10.60	0.00	0.00	0.00	0.76	4.35	0.00	0.00	0.00	0.00	0.00	1.73	0.50	0.00	0.00	0.60	0.37	0.00	0.00	0.00	0.11	0.24	0.00	0.00	0.00	0.00	0.00	0.08	0.333	0.019
28	Heung Yip Road	1	420	3.13	3.40	0.00	6.73	11.61	0.00	12.75	0.00	0.83	4.77	6.28	12.75	20.24	0.00	0.00	1.90	0.44	0.00	0.00	0.49	0.41	0.00	0.86	0.00	0.12	0.27	0.49	0.86	1.22	0.00	0.00	0.09	0.844	0.052
29	Heung Yip Road	1	420	3.13	3.40	0.00	6.73	11.61	0.00	12.75	0.00	0.83	4.77	6.28	12.75	20.24	0.00	0.00	1.90	0.44	0.00	0.00	0.49	0.41	0.00	0.86	0.00	0.12	0.27	0.49	0.86	1.22	0.00	0.00	0.09	0.844	0.052
30	Nam Long Shan Road	1	60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.30	0.00	0.00	0.00	0.00	0.00	0.00	551.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.13	0.00	0.00	0.00	0.00	0.00	0.00	6.67	0.00	5.867	0.118
31	Nam Long Shan Road	1	920	3.51	5.68	0.00	2.05	2.65	0.00	5.82	2.30	0.57	3.26	2.87	5.82	9.24	8.87	35.96	0.87	0.49	0.00	0.00	0.15	0.09	0.00	0.39	0.33	0.08	0.18	0.22	0.39	0.56	0.07	0.44	0.04	0.895	0.034
32	Nam Long Shan Road	1	850	3.48	5.59	0.00	2.22	2.87	0.00	6.30	2.49	0.61	2.36	3.10	6.30	10.00	9.60	38.92	0.94	0.49	0.00	0.00	0.16	0.10	0.00	0.42	0.36	0.09	0.13	0.24	0.43	0.60	0.08	0.47	0.04	0.948	0.036
33	Welfare Road	1	130	3.37	10.97	0.00	7.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.06	0.47	0.00	0.00	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.246	0.011
34	Welfare Road	1	50	4.38	9.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.139	0.006
35	Shum Wan Road	1	490	2.85	7.76	0.00	1.92	2.49	0.00	0.00	6.48	0.89	4.09	5.38	5.46	8.67	16.66	33.76	1.22	0.40	0.00	0.00	0.14	0.09	0.00	0.00	0.94	0.12	0.23	0.42	0.37	0.52	0.14	0.41	0.06	0.976	0.038
36	Shum Wan Road	1	540	2.89	7.92	0.00	1.74	2.26	0.00	0.00	5.88	0.80	3.71	4.88	4.96	7.87	22.68	38.29	1.11	0.40	0.00	0.00	0.13	0.08	0.00	0.00	0.86	0.11	0.21	0.38	0.34	0.47	0.19	0.46	0.05	1.050	0.037
37	Shum Wan Pier Drive	1	90	3.04	7.92	0.00	0.00	0.00	0.00	0.00	5.88	0.97	5.56	0.00	0.00	0.00	0.00	45.95	2.21	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.86	0.13	0.31	0.00	0.00	0.00	0.00	0.56	0.10	0.715	0.024
38	Nam Long Shan Road	1	935	3.52	5.59	0.00	2.01	2.61	0.00	5.73	2.27	0.56	3.21	2.82	5.73	9.09	13.10	35.38	0.85	0.49	0.00	0.00	0.15	0.09	0.00	0.39	0.33	0.08	0.18	0.22	0.39	0.55	0.11	0.43	0.04	0.925	0.034
39	Nam Long Shan Road	1	210	3.65	6.79	0.00	0.00	0.00	0.00	0.00	0.00	0.83	4.77	0.00	0.00	0.00	0.00	39.38	1.90	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.27	0.00	0.00	0.00	0.00	0.48	0.09	0.573	0.015
40	Nam Long Shan Road	1	290	3.59	6.56	0.00	3.25	0.00	0.00	0.00	3.65	0.60	3.45	0.00	0.00	0.00	0.00	28.52	1.37	0.50	0.00	0.00	0.24	0.00	0.00	0.00	0.53	0.08	0.19	0.00	0.00	0.00	0.00	0.35	0.07	0.510	0.020
41	Police School Road	1	925	3.49	5.65	0.00	2.04	2.64	0.00	5.79	2.29	0.56	3.25	2.85	5.79	9.19	13.24	35.76	0.86	0.49	0.00	0.00	0.15	0.09	0.00	0.39	0.33	0.08	0.18	0.22	0.39	0.55	0.11	0.43	0.04	0.934	0.035
42#	Police School Road		NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	#VALUE!	#VALUE!

Emission Factors from EMFAC (Type 1 Local Road - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0548	0.4754	0.0000	0.9418	2.4382	2.9524	5.3547	1.0590	0.1737	1.0009	2.6365	5.3545	8.4988	8.1641	8.2706	0.3981
RSP	0.0076	0.0000	0.0000	0.0689	0.0862	0.2133	0.3612	0.1540	0.0242	0.0558	0.2041	0.3619	0.5121	0.0682	0.1001	0.0189

Emission Factors from EMFAC (Type 2 Primary Distributor - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0456	0.4044	0.0000	0.7871	1.8118	2.2933	4.0169	0.9978	0.1463	0.8384	1.8993	3.8940	6.1813	5.8118	6.0583	0.3645
RSP	0.0046	0.0000	0.0000	0.0512	0.0529	0.1241	0.2048	0.0856	0.0156	0.0399	0.1425	0.2587	0.3114	0.0471	0.0643	0.0116

Emission Factors from EMFAC (Type 3 Primary Distributor - 70kph)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0360	0.3166	0.0000	0.7255	1.3957	1.8550	3.2787	1.0829	0.1180	0.7685	1.4083	2.8761	4.5729	0.0000	4.9926	0.3462
RSP	0.0021	0.0000	0.0000	0.0277	0.0379	0.0691	0.1226	0.0577	0.0078	0.0383	0.1362	0.2487	0.2334	0.0000	0.0558	0.0070

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 09-10)

Traffic (Hour: 09-10)

Hour: 09-10				Flow Rate (veh./hr)																% of Total Flow															
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
1	Yip Hing St	1	95	45	10	0	10	10	10	10	0	0	0	0	0	0	0	0	0	47.37	10.53	0.00	10.53	10.53	10.53	10.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	Tong Bin Lane	1	105	45	15	0	10	10	10	15	0	0	0	0	0	0	0	0	0	42.86	14.29	0.00	9.52	9.52	9.52	14.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	Tong Bin Lane (near J/Wong Chuk	1	230	90	35	0	20	10	10	35	0	0	0	10	10	10	0	0	0	39.13	15.22	0.00	8.70	4.35	4.35	15.22	0.00	0.00	0.00	4.35	4.35	4.35	0.00	0.00	0.00
4	Yip Kan St	1	310	120	45	0	30	20	10	45	0	10	0	10	10	10	0	0	0	38.71	14.52	0.00	9.68	6.45	3.23	14.52	0.00	3.23	0.00	3.23	3.23	3.23	0.00	0.00	0.00
5	Wong Chuk Hang Road	2	1885	835	340	0	145	85	10	35	95	50	40	20	10	10	15	145	50	44.30	18.04	0.00	7.69	4.51	0.53	1.86	5.04	2.65	2.12	1.06	0.53	0.53	0.80	7.69	2.65
6	Wong Chuk Hang Road	2	2110	945	380	0	165	95	10	35	110	50	40	20	10	10	15	165	60	44.79	18.01	0.00	7.82	4.50	0.47	1.66	5.21	2.37	1.90	0.95	0.47	0.47	0.71	7.82	2.84
7	Wong Chuk Hang Road	2	920	315	130	0	50	30	0	10	105	20	20	20	10	10	10	170	20	34.24	14.13	0.00	5.43	3.26	0.00	1.09	11.41	2.17	2.17	2.17	1.09	1.09	1.09	18.48	2.17
8	Wong Chuk Hang Road(flyover)	3	1230	595	240	0	105	60	10	25	20	30	30	10	10	10	5	40	40	48.37	19.51	0.00	8.54	4.88	0.81	2.03	1.63	2.44	2.44	0.81	0.81	0.81	0.41	3.25	3.25
9	Wong Chuk Hang Road	2	1355	730	235	0	45	20	10	30	30	15	15	10	10	15	20	160	10	53.87	17.34	0.00	3.32	1.48	0.74	2.21	2.21	1.11	1.11	0.74	0.74	1.11	1.48	11.81	0.74
10	Wong Chuk Hang Road	2	1055	555	185	0	30	20	10	20	30	10	5	10	10	15	20	125	10	52.61	17.54	0.00	2.84	1.90	0.95	1.90	2.84	0.95	0.47	0.95	0.95	1.42	1.90	11.85	0.95
11	Wong Chuk Hang Road	2	840	460	155	0	20	10	10	20	20	5	0	10	0	5	20	95	10	54.76	18.45	0.00	2.38	1.19	1.19	2.38	2.38	0.60	0.00	1.19	0.00	0.60	2.38	11.31	1.19
12	Wong Chuk Hang Road(flyover)	3	1485	735	280	0	125	75	10	35	30	40	30	10	10	10	0	45	50	49.49	18.86	0.00	8.42	5.05	0.67	2.36	2.02	2.69	2.02	0.67	0.67	0.67	0.00	3.03	3.37
13	Wong Chuk Hang Road	2	805	60	100	0	25	10	0	0	195	20	10	10	10	10	20	335	0	7.45	12.42	0.00	3.11	1.24	0.00	0.00	24.22	2.48	1.24	1.24	1.24	2.48	41.61	0.00
14	Wong Chuk Hang Road	2	400	135	65	0	20	10	0	0	50	10	10	10	0	0	10	70	10	33.75	16.25	0.00	5.00	2.50	0.00	0.00	12.50	2.50	2.50	2.50	0.00	0.00	2.50	17.50	2.50
15	Wong Chuk Hang Road	2	1885	840	335	0	145	85	10	35	100	50	40	20	10	10	10	145	50	44.56	17.77	0.00	7.69	4.51	0.53	1.86	5.31	2.65	2.12	1.06	0.53	0.53	0.53	7.69	2.65
16	Nam Long Shan Road	1	1215	575	220	0	35	20	10	20	70	30	30	20	10	15	20	120	20	47.33	18.11	0.00	2.88	1.65	0.82	1.65	5.76	2.47	2.47	1.65	0.82	1.23	1.65	9.88	1.65
17	Heung Yip Road	1	680	390	55	0	60	35	0	10	0	40	30	10	10	10	0	0	30	57.35	8.09	0.00	8.82	5.15	0.00	1.47	0.00	5.88	4.41	1.47	1.47	1.47	0.00	0.00	4.41
18	Heung Yip Road	1	840	485	65	0	70	45	10	10	0	45	40	20	10	10	0	0	30	57.74	7.74	0.00	8.33	5.36	1.19	1.19	0.00	5.36	4.76	2.38	1.19	1.19	0.00	0.00	3.57
19	Heung Yip Road	1	1100	630	90	0	95	60	10	20	0	65	50	20	10	10	0	0	40	57.27	8.18	0.00	8.64	5.45	0.91	1.82	0.00	5.91	4.55	1.82	0.91	0.91	0.00	0.00	3.64
20	Yip Fat St	1	465	265	35	0	40	25	0	10	0	20	20	10	10	10	0	0	20	56.99	7.53	0.00	8.60	5.38	0.00	2.15	0.00	4.30	4.30	2.15	2.15	2.15	0.00	0.00	4.30
21	Heung Yip Road	1	640	365	55	0	55	35	0	10	0	30	30	10	10	10	0	0	30	57.03	8.59	0.00	8.59	5.47	0.00	1.56	0.00	4.69	4.69	1.56	1.56	1.56	0.00	0.00	4.69
22	Yip Fat St	1	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	Yip Fat St	1	360	205	30	0	35	20	0	10	0	20	20	10	0	0	0	0	10	56.94	8.33	0.00	9.72	5.56	0.00	2.78	0.00	5.56	5.56	2.78	0.00	0.00	0.00	0.00	2.78
24	Heung Yip Road	1	630	365	45	0	55	35	0	10	0	30	30	10	10	10	0	0	30	57.94	7.14	0.00	8.73	5.56	0.00	1.59	0.00	4.76	4.76	1.59	1.59	1.59	0.00	0.00	4.76
25	Heung Yip Road	1	625	395	75	0	40	25	0	10	0	20	20	10	0	0	0	10	20	63.20	12.00	0.00	6.40	4.00	0.00	1.60	0.00	3.20	3.20	1.60	0.00	0.00	0.00	1.60	3.20
26	Heung Yip Road	1	915	560	105	0	50	35	10	10	0	45	30	10	10	10	0	10	30	61.20	11.48	0.00	5.46	3.83	1.09	1.09	0.00	4.92	3.28	1.09	1.09	1.09	0.00	1.09	3.28
27	Heung Yip Road	1	230	150	20	0	20	10	0	0	0	10	10	0	0	0	0	0	10	65.22	8.70	0.00	8.70	4.35	0.00	0.00	0.00	4.35	4.35	0.00	0.00	0.00	0.00	0.00	4.35
28	Heung Yip Road	1	420	240	30	0	30	20	0	10	0	20	20	10	10	10	0	0	20	57.14	7.14	0.00	7.14	4.76	0.00	2.38	0.00	4.76	4.76	2.38	2.38	2.38	0.00	0.00	4.76
29	Heung Yip Road	1	445	250	35	0	35	25	0	10	0	20	20	10	10	10	0	0	20	56.18	7.87	0.00	7.87	5.62	0.00	2.25	0.00	4.49	4.49	2.25	2.25	2.25	0.00	0.00	4.49
30	Nam Long Shan Road	1	65	0	0	0	0	0	0	0	20	0	0	0	0	0	0	45	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.77	0.00	0.00	0.00	0.00	0.00	0.00	69.23	0.00
31	Nam Long Shan Road	1	1005	610	155	0	25	15	0	10	20	30	30	10	10	15	10	45	20	60.70	15.42	0.00	2.49	1.49	0.00	1.00	1.99	2.99	2.99	1.00	1.00	1.49	1.00	4.48	1.99
32	Nam Long Shan Road	1	945	565	150	0	25	15	0	10	20	30	20	10	10	15	10	45	20	59.79	15.87	0.00	2.65	1.59	0.00	1.06	2.12	3.17	2.12	1.06	1.06	1.59	1.06	4.76	2.12
33	Welfare Road	1	130	80	30	0	10	0	0	0	0	0	0	0	0	0	0	0	10	61.54	23.08	0.00	7.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.69
34	Welfare Road	1	55	45	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81.82	18.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	Shum Wan Road	1	415	165	95	0	15	10	0	0	20	20	15	10	10	15	10	20	10	39.76	22.89	0.00	3.61	2.41	0.00	0.00	4.82	4.82	3.61	2.41	2.41	3.61	2.41	4.82	2.41
36	Shum Wan Road	1	535	215	130	0	20	10	0	0	25	25	20	15	10	15	15	25	10	40.19	24.30	0.00	3.74	1.87	0.00	0.00	4.67	4.67	3.74	2.80	1.87	2.80	2.80	4.67	1.87
37	Shum Wan Pier Drive	1	100	45	15	0	5	5	0	0	5	5	5	5	0	0	0	5	5	45.00	15.00	0.00	5.00	5.00	0.00	0.00	5.00	5.00	5.00	5.00	0.00	0.00	0.00	5.00	5.00
38	Nam Long Shan Road	1	1060	635	180	0	25	15	0	10	20	30	30	10	10	15	15	45	20	59.91	16.98	0.00	2.36	1.42	0.00	0.94	1.89	2.83	2.83	0.94	0.94	1.42	1.42	4.25	1.89
39	Nam Long Shan Road	1	210	140	30	0	0	0	0	0	0	10	10	0	0	0	0	10	10	66.67	14.29	0.00	0.00	0.00	0.00	0.00	0.00	4.76	4.76	0.00	0.00	0.00	0.00	4.76	4.76
40	Nam Long Shan Road	1	285	185	40	0	10	0	0	0	10	10	10	0	0	0	0	10	10	64.91	14.04	0.00	3.51	0.00	0.00	0.00	3.51	3.51	3.51	0.00	0.00	0.00	0.00	3.51	3.51
41	Police School Road	1	1040	620	175	0	25	15	0	10	20	30	30	10	10	15	15	45	20	59.62	16.83	0.00	2.40	1.44	0.00	0.96	1.92	2.88	2.88	0.96	0.96	1.44	1.44	4.33	1.92
42#	Police School Road		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 09-10)

Emission Factor Calculations (Hour: 00-01)

Hour: 09-10				% of Total Flow x Emission Factor (NOx)																	% of Total Flow x Emission Factor (RSP)																		Composite Emission Factor (g/veh·km)	
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	NOx	RSP
1	Yip Hing St	1	95	2.58	4.98	0.00	9.89	25.64	30.95	55.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.73	0.91	2.25	3.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.299	0.080
2	Tong Bin Lane	1	105	2.33	6.75	0.00	8.95	23.19	28.00	75.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.66	0.82	2.03	5.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.451	0.089
3	Tong Bin Lane (near J/Wong Chuk	1	230	2.13	7.19	0.00	8.17	10.59	12.78	80.76	0.00	0.00	0.00	11.40	23.22	36.85	0.00	0.00	0.00	0.30	0.00	0.00	0.60	0.38	0.93	5.44	0.00	0.00	0.00	0.88	1.57	2.23	0.00	0.00	0.00	1.931	0.123
4	Yip Kan St	1	310	2.11	6.86	0.00	9.09	15.71	9.49	77.04	0.00	0.56	0.00	8.46	17.23	27.34	0.00	0.00	0.00	0.30	0.00	0.00	0.67	0.56	0.69	5.19	0.00	0.08	0.00	0.66	1.17	1.65	0.00	0.00	0.00	1.739	0.110
5	Wong Chuk Hang Road	2	1885	1.98	7.15	0.00	5.94	7.98	1.21	7.34	5.00	0.38	1.75	1.95	1.99	3.15	4.58	45.75	0.96	0.19	0.00	0.00	0.38	0.23	0.07	0.37	0.41	0.04	0.08	0.15	0.13	0.15	0.04	0.48	0.03	0.971	0.027
6	Wong Chuk Hang Road	2	2110	2.00	7.14	0.00	6.04	7.97	1.08	6.55	5.17	0.34	1.57	1.74	1.78	2.81	4.09	46.51	1.03	0.20	0.00	0.00	0.39	0.23	0.06	0.33	0.43	0.04	0.07	0.13	0.12	0.14	0.03	0.49	0.03	0.958	0.027
7	Wong Chuk Hang Road	2	920	1.53	5.60	0.00	4.20	5.77	0.00	4.29	11.32	0.31	1.79	4.00	4.08	6.45	6.26	109.91	0.79	0.15	0.00	0.00	0.27	0.17	0.00	0.21	0.93	0.03	0.08	0.30	0.27	0.32	0.05	1.15	0.03	1.663	0.040
8	Wong Chuk Hang Road(flyover)	3	1230	1.73	6.14	0.00	6.18	6.79	1.50	6.65	1.75	0.29	1.86	1.14	2.33	3.71	1.90	16.19	1.12	0.10	0.00	0.00	0.24	0.18	0.06	0.25	0.09	0.02	0.09	0.11	0.20	0.19	0.02	0.18	0.02	0.593	0.018
9	Wong Chuk Hang Road	2	1355	2.41	6.87	0.00	2.56	2.61	1.69	8.75	2.20	0.16	0.91	1.36	2.77	6.57	8.50	70.23	0.27	0.24	0.00	0.00	0.16	0.07	0.09	0.44	0.18	0.02	0.04	0.10	0.18	0.32	0.07	0.74	0.01	1.179	0.027
10	Wong Chuk Hang Road	2	1055	2.35	6.95	0.00	2.20	3.36	2.17	7.49	2.82	0.14	0.39	1.74	3.56	8.44	10.91	70.47	0.34	0.23	0.00	0.00	0.14	0.10	0.12	0.37	0.23	0.01	0.02	0.13	0.24	0.41	0.09	0.74	0.01	1.233	0.028
11	Wong Chuk Hang Road	2	840	2.45	7.31	0.00	1.84	2.11	2.72	9.41	2.36	0.08	0.00	2.19	0.00	3.53	13.70	67.27	0.43	0.24	0.00	0.00	0.12	0.06	0.15	0.47	0.19	0.01	0.00	0.16	0.00	0.17	0.11	0.71	0.01	1.154	0.024
12	Wong Chuk Hang Road(flyover)	3	1485	1.77	5.93	0.00	6.09	7.03	1.25	7.71	2.17	0.31	1.54	0.95	1.93	3.07	0.00	15.09	1.16	0.10	0.00	0.00	0.23	0.19	0.05	0.29	0.12	0.02	0.08	0.09	0.17	0.16	0.00	0.17	0.02	0.560	0.017
13	Wong Chuk Hang Road	2	805	0.33	4.92	0.00	2.40	2.20	0.00	0.00	24.04	0.35	1.03	2.29	4.66	7.37	14.30	247.52	0.00	0.03	0.00	0.00	0.15	0.06	0.00	0.00	1.98	0.04	0.05	0.17	0.31	0.36	0.12	2.59	0.00	3.114	0.059
14	Wong Chuk Hang Road	2	400	1.51	6.44	0.00	3.86	4.42	0.00	0.00	12.40	0.36	2.06	4.60	0.00	0.00	14.39	104.09	0.90	0.15	0.00	0.00	0.25	0.13	0.00	0.00	1.02	0.04	0.10	0.34	0.00	0.00	0.12	1.09	0.03	1.550	0.033
15	Wong Chuk Hang Road	2	1885	1.99	7.04	0.00	5.94	7.98	1.21	7.34	5.26	0.38	1.75	1.95	1.99	3.15	3.05	45.75	0.96	0.20	0.00	0.00	0.38	0.23	0.07	0.37	0.43	0.04	0.08	0.15	0.13	0.15	0.02	0.48	0.03	0.958	0.028
16	Nam Long Shan Road	1	1215	2.58	8.56	0.00	2.71	4.01	2.42	8.74	6.06	0.43	2.46	4.31	4.40	10.46	13.40	81.37	0.65	0.36	0.00	0.00	0.20	0.14	0.18	0.59	0.88	0.06	0.14	0.33	0.30	0.63	0.11	0.99	0.03	1.526	0.049
17	Heung Yip Road	1	680	3.12	3.82	0.00	8.29	12.54	0.00	7.80	0.00	1.01	4.40	3.85	7.85	12.46	0.00	0.00	1.74	0.44	0.00	0.00	0.61	0.44	0.00	0.53	0.00	0.14	0.25	0.30	0.53	0.75	0.00	0.00	0.08	0.669	0.041
18	Heung Yip Road	1	840	3.14	3.66	0.00	7.83	13.05	3.50	6.32	0.00	0.92	4.75	6.24	6.36	10.09	0.00	0.00	1.41	0.44	0.00	0.00	0.57	0.46	0.25	0.43	0.00	0.13	0.27	0.48	0.43	0.61	0.00	0.00	0.07	0.673	0.041
19	Heung Yip Road	1	1100	3.12	3.87	0.00	8.12	13.28	2.67	9.65	0.00	1.02	4.53	4.77	4.86	7.71	0.00	0.00	1.44	0.44	0.00	0.00	0.60	0.47	0.19	0.65	0.00	0.14	0.25	0.37	0.33	0.47	0.00	0.00	0.07	0.650	0.040
20	Yip Fat St	1	465	3.10	3.56	0.00	8.08	13.09	0.00	11.41	0.00	0.74	4.29	5.64	11.49	18.23	0.00	0.00	1.70	0.44	0.00	0.00	0.59	0.46	0.00	0.77	0.00	0.10	0.24	0.44	0.78	1.10	0.00	0.00	0.08	0.813	0.050
21	Heung Yip Road	1	640	3.10	4.06	0.00	8.08	13.32	0.00	8.29	0.00	0.81	4.67	4.10	8.35	13.24	0.00	0.00	1.85	0.44	0.00	0.00	0.59	0.47	0.00	0.56	0.00	0.11	0.26	0.32	0.57	0.80	0.00	0.00	0.09	0.699	0.042
22	Yip Fat St	1	10	5.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.054	0.008
23	Yip Fat St	1	360	3.10	3.94	0.00	9.14	13.53	0.00	14.74	0.00	0.96	5.54	7.28	0.00	0.00	0.00	0.00	1.10	0.44	0.00	0.00	0.67	0.48	0.00	0.99	0.00	0.13	0.31	0.57	0.00	0.00	0.00	0.00	0.05	0.593	0.036
24	Heung Yip Road	1	630	3.15	3.38	0.00	8.20	13.53	0.00	8.42	0.00	0.82	4.75	4.16	8.48	13.45	0.00	0.00	1.88	0.44	0.00	0.00	0.60	0.48	0.00	0.57	0.00	0.12	0.27	0.32	0.57	0.81	0.00	0.00	0.09	0.702	0.043
25	Heung Yip Road	1	625	3.44	5.67	0.00	6.01	9.74	0.00	8.49	0.00	0.55	3.19	4.19	0.00	0.00	0.00	13.18	1.26	0.48	0.00	0.00	0.44	0.35	0.00	0.57	0.00	0.08	0.18	0.33	0.00	0.00	0.00	0.16	0.06	0.557	0.026
26	Heung Yip Road	1	915	3.33	5.42	0.00	5.14	9.32	3.21	5.80	0.00	0.85	3.27	2.86	5.84	9.26	0.00	9.00	1.30	0.47	0.00	0.00	0.38	0.33	0.23	0.39	0.00	0.12	0.18	0.22	0.40	0.56	0.00	0.11	0.06	0.646	0.034
27	Heung Yip Road	1	230	3.55	4.11	0.00	8.17	10.59	0.00	0.00	0.00	0.75	4.33	0.00	0.00	0.00	0.00	0.00	1.72	0.50	0.00	0.00	0.60	0.38	0.00	0.00	0.00	0.11	0.24	0.00	0.00	0.00	0.00	0.00	0.08	0.332	0.019
28	Heung Yip Road	1	420	3.11	3.38	0.00	6.71	11.60	0.00	12.64	0.00	0.82	4.75	6.24	12.72	20.18	0.00	0.00	1.88	0.44	0.00	0.00	0.49	0.41	0.00	0.85	0.00	0.12	0.27	0.48	0.86	1.22	0.00	0.00	0.09	0.840	0.052
29	Heung Yip Road	1	445	3.06	3.72	0.00	7.39	13.68	0.00	11.93	0.00	0.77	4.48	5.89	12.00	19.05	0.00	0.00	1.78	0.43	0.00	0.00	0.54	0.49	0.00	0.80	0.00	0.11	0.25	0.46	0.81	1.15	0.00	0.00	0.08	0.837	0.051
30	Nam Long Shan Road	1	65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32.39	0.00	0.00	0.00	0.00	0.00	0.00	570.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.72	0.00	0.00	0.00	0.00	0.00	0.00	6.92	0.00	6.028	0.116
31	Nam Long Shan Road	1	1005	3.30	7.29	0.00	2.34	3.63	0.00	5.28	2.09	0.51	2.97	2.61	5.31	12.65	8.10	36.89	0.79	0.46	0.00	0.00	0.17	0.13	0.00	0.36	0.31	0.07	0.17	0.20	0.36	0.76	0.07	0.45	0.04	0.938	0.035
32	Nam Long Shan Road	1	945	3.25	7.50	0.00	2.49	3.87	0.00	5.62	2.23	0.55	2.11	2.77	5.65	13.45	8.62	39.23	0.84	0.46	0.00	0.00	0.18	0.14	0.00	0.38	0.32	0.08	0.12	0.22	0.38	0.81	0.07	0.48	0.04	0.982	0.037
33	Welfare Road	1	130	3.35	10.91	0.00	7.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.04	0.47	0.00	0.00	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.245	0.011
34	Welfare Road	1	55	4.45	8.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.130	0.006
35	Shum Wan Road	1	415	2.16	10.82	0.00	3.40	5.87	0.00	0.00	5.07	0.83	3.60	6.32	12.87	30.63	19.62	39.70	0.95	0.30	0.00	0.00	0.25	0.21	0.00	0.00	0.74	0.12	0.20	0.49	0.87	1.85	0.16	0.48	0.05	1.418	0.057
36	Shum Wan Road	1	535	2.19	11.49	0.00	3.51	4.55	0.00	0.00	4.92	0.80	3.73	7.35	9.98	23.76	22.83	38.50	0.74	0.31	0.00	0.00	0.26	0.16	0.00	0.00	0.72	0.11	0.21	0.57	0.68	1.44	0.19	0.47	0.04	1.343	0.051
37	Shum Wan Pier Drive	1	100	2.45	7.09	0.00	4.70	12.18	0.00	0.00	5.26	0.86	4.98	13.11	0.00	0.00	0.00	41.19	1.98	0.34	0.00	0.00	0.34	0.43	0.00	0.00	0.77	0.12	0.28	1.02	0.00	0.00	0.00	0.50	0.09	0.938	0.039
38	Nam Long Shan Road	1	1060	3.26	8.03	0.00	2.22	3.45	0.00	5.01	1.99	0.49	2.82	2.47	5.04	11.99	11.52	34.98	0.75	0.46	0.00	0.00	0.16	0.12	0.00	0.34	0.29	0.07	0.16	0.19	0.34	0.72	0.10	0.42	0.04	0.940	0.034
39	Nam Long Shan Road	1	210	3.63	6.75	0.00	0.00	0.00	0.00	0.00	0.00	0.82	4.75	0.00	0.00	0.00	0.00	39.23	1.88	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.27	0.00	0.00	0.00	0.00	0.48	0.09	0.571	0.015
40	Nam Long Shan Road	1	285	3.53	6.63	0.00	3.30	0.00	0.00	0.00	3.69	0.60	3.50	0.00	0.00	0.00	0.00	28.91	1.39	0.50	0.00	0.00	0.24	0.00	0.00	0.00	0.54	0.08	0.20	0.00	0.00	0.00	0.00	0.35	0.07	0.516	0.020
41	Police School Road	1	1040	3.24	7.95	0.00	2.26	3.51	0.00	5.10	2.02	0.50	2.87	2.52	5.14	12.22	11.74	35.65	0.76	0.46	0.00	0.00	0.17	0.12	0.00	0.34	0.30	0.07	0.16	0.20	0.35	0.74	0.10	0.43	0.04	0.955	0.035
42#	Police School Road		NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	#VALUE!	#VALUE!

Emission Factors from EMFAC (Type 1 Local Road - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0544	0.4727	0.0000	0.9398	2.4354	2.9405	5.3074	1.0526	0.1721	0.9965	2.6213	5.3410	8.4756	8.1417	8.2387	0.3951
RSP	0.0076	0.0000	0.0000	0.0690	0.0864	0.2133	0.3575	0.1535	0.0242	0.0558	0.2034	0.3619	0.5121	0.0682	0.1000	0.0189

Emission Factors from EMFAC (Type 2 Primary Distributor - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0447	0.3963	0.0000	0.7721	1.7700	2.2870	3.9505	0.9922	0.1428	0.8257	1.8406	3.7528	5.9349	5.7561	5.9479	0.3614
RSP	0.0044	0.0000	0.0000	0.0496	0.0507	0.1241	0.1967	0.0818	0.0150	0.0389	0.1377	0.2486	0.2906	0.0467	0.0624	0.0116

Emission Factors from EMFAC (Type 3 Primary Distributor - 70kph)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0358	0.3146	0.0000	0.7235	1.3918	1.8499	3.2698	1.0756	0.1169	0.7642	1.4044	2.8682	4.5604	4.6628	4.9790	0.3432
RSP	0.0021	0.0000	0.0000	0.0277	0.0379	0.0691	0.1226	0.0577	0.0078	0.0383	0.1362	0.2487	0.2334	0.0469	0.0558	0.0070

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 10-11)

Traffic (Hour: 10-11)

Hour: 10-11				Flow Rate (veh./hr)																% of Total Flow																
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
1	Yip Hing St	1	105	45	15	0	10	10	10	15	0	0	0	0	0	0	0	0	0	42.86	14.29	0.00	9.52	9.52	9.52	14.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	Tong Bin Lane	1	110	50	15	0	10	10	10	15	0	0	0	0	0	0	0	0	0	45.45	13.64	0.00	9.09	9.09	9.09	13.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	Tong Bin Lane (near J/Wong Chuk	1	240	95	35	0	20	10	15	35	0	0	0	10	10	10	0	0	0	39.58	14.58	0.00	8.33	4.17	6.25	14.58	0.00	0.00	0.00	4.17	4.17	4.17	0.00	0.00	0.00
4	Yip Kan St	1	315	120	45	0	30	20	15	45	0	10	0	10	10	10	0	0	0	38.10	14.29	0.00	9.52	6.35	4.76	14.29	0.00	3.17	0.00	3.17	3.17	3.17	0.00	0.00	0.00
5	Wong Chuk Hang Road	2	1865	810	340	0	150	85	10	35	95	50	40	20	10	10	15	140	55	43.43	18.23	0.00	8.04	4.56	0.54	1.88	5.09	2.68	2.14	1.07	0.54	0.54	0.80	7.51	2.95
6	Wong Chuk Hang Road	2	2100	920	380	0	175	100	10	40	105	50	40	20	10	10	15	160	65	43.81	18.10	0.00	8.33	4.76	0.48	1.90	5.00	2.38	1.90	0.95	0.48	0.48	0.71	7.62	3.10
7	Wong Chuk Hang Road	2	905	295	130	0	55	30	0	10	105	20	20	20	10	10	10	170	20	32.60	14.36	0.00	6.08	3.31	0.00	1.10	11.60	2.21	2.21	2.21	1.10	1.10	1.10	18.78	2.21
8	Wong Chuk Hang Road(flyover)	3	1225	585	240	0	110	65	10	25	20	30	30	10	10	10	5	35	40	47.76	19.59	0.00	8.98	5.31	0.82	2.04	1.63	2.45	2.45	0.82	0.82	0.82	0.41	2.86	3.27
9	Wong Chuk Hang Road	2	1385	715	265	0	45	25	10	30	35	15	15	15	10	15	25	155	10	51.62	19.13	0.00	3.25	1.81	0.72	2.17	2.53	1.08	1.08	1.08	0.72	1.08	1.81	11.19	0.72
10	Wong Chuk Hang Road	2	1075	540	215	0	35	20	10	20	30	15	5	10	10	15	25	115	10	50.23	20.00	0.00	3.26	1.86	0.93	1.86	2.79	1.40	0.47	0.93	0.93	1.40	2.33	10.70	0.93
11	Wong Chuk Hang Road	2	880	450	190	0	25	15	10	20	20	5	5	10	0	5	25	90	10	51.14	21.59	0.00	2.84	1.70	1.14	2.27	2.27	0.57	0.57	1.14	0.00	0.57	2.84	10.23	1.14
12	Wong Chuk Hang Road(flyover)	3	1465	720	270	0	130	75	10	35	30	40	30	10	10	10	0	45	50	49.15	18.43	0.00	8.87	5.12	0.68	2.39	2.05	2.73	2.05	0.68	0.68	0.68	0.00	3.07	3.41
13	Wong Chuk Hang Road	2	810	65	100	0	25	15	0	0	185	20	10	10	10	10	20	335	5	8.02	12.35	0.00	3.09	1.85	0.00	0.00	22.84	2.47	1.23	1.23	1.23	1.23	2.47	41.36	0.62
14	Wong Chuk Hang Road	2	410	135	70	0	20	10	0	0	50	10	10	10	0	0	15	70	10	32.93	17.07	0.00	4.88	2.44	0.00	0.00	12.20	2.44	2.44	2.44	0.00	0.00	3.66	17.07	2.44
15	Wong Chuk Hang Road	2	1885	825	330	0	155	90	10	35	95	50	40	20	10	10	15	145	55	43.77	17.51	0.00	8.22	4.77	0.53	1.86	5.04	2.65	2.12	1.06	0.53	0.53	0.80	7.69	2.92
16	Nam Long Shan Road	1	1265	580	250	0	40	25	10	20	65	30	30	20	10	15	30	120	20	45.85	19.76	0.00	3.16	1.98	0.79	1.58	5.14	2.37	2.37	1.58	0.79	1.19	2.37	9.49	1.58
17	Heung Yip Road	1	680	370	55	0	65	40	0	15	0	40	30	15	10	10	0	0	30	54.41	8.09	0.00	9.56	5.88	0.00	2.21	0.00	5.88	4.41	2.21	1.47	1.47	0.00	0.00	4.41
18	Heung Yip Road	1	835	465	65	0	75	50	10	15	0	40	40	20	10	15	0	0	30	55.69	7.78	0.00	8.98	5.99	1.20	1.80	0.00	4.79	4.79	2.40	1.20	1.80	0.00	0.00	3.59
19	Heung Yip Road	1	1095	600	90	0	105	60	10	25	0	60	50	25	15	15	0	0	40	54.79	8.22	0.00	9.59	5.48	0.91	2.28	0.00	5.48	4.57	2.28	1.37	1.37	0.00	0.00	3.65
20	Yip Fat St	1	480	260	35	0	45	30	0	15	0	25	20	10	10	10	0	0	20	54.17	7.29	0.00	9.38	6.25	0.00	3.13	0.00	5.21	4.17	2.08	2.08	2.08	0.00	0.00	4.17
21	Heung Yip Road	1	615	345	55	0	55	35	0	10	0	30	30	10	10	10	0	0	25	56.10	8.94	0.00	8.94	5.69	0.00	1.63	0.00	4.88	4.88	1.63	1.63	1.63	0.00	0.00	4.07
22	Yip Fat St	1	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	Yip Fat St	1	365	200	30	0	40	25	0	10	0	20	20	10	0	0	0	0	10	54.79	8.22	0.00	10.96	6.85	0.00	2.74	0.00	5.48	5.48	2.74	0.00	0.00	0.00	0.00	2.74
24	Heung Yip Road	1	595	340	40	0	55	35	0	10	0	30	30	10	10	10	0	0	25	57.14	6.72	0.00	9.24	5.88	0.00	1.68	0.00	5.04	5.04	1.68	1.68	1.68	0.00	0.00	4.20
25	Heung Yip Road	1	635	380	75	0	45	30	0	15	0	25	25	10	0	0	0	10	20	59.84	11.81	0.00	7.09	4.72	0.00	2.36	0.00	3.94	3.94	1.57	0.00	0.00	0.00	1.57	3.15
26	Heung Yip Road	1	890	525	105	0	55	35	10	15	0	40	30	15	10	10	0	10	30	58.99	11.80	0.00	6.18	3.93	1.12	1.69	0.00	4.49	3.37	1.69	1.12	1.12	0.00	1.12	3.37
27	Heung Yip Road	1	235	145	20	0	25	15	0	0	0	10	10	0	0	0	0	0	10	61.70	8.51	0.00	10.64	6.38	0.00	0.00	0.00	4.26	4.26	0.00	0.00	0.00	0.00	0.00	4.26
28	Heung Yip Road	1	400	220	30	0	30	20	0	10	0	20	20	10	10	10	0	0	20	55.00	7.50	0.00	7.50	5.00	0.00	2.50	0.00	5.00	5.00	2.50	2.50	2.50	0.00	0.00	5.00
29	Heung Yip Road	1	435	235	35	0	40	25	0	10	0	20	20	10	10	10	0	0	20	54.02	8.05	0.00	9.20	5.75	0.00	2.30	0.00	4.60	4.60	2.30	2.30	2.30	0.00	0.00	4.60
30	Nam Long Shan Road	1	60	0	0	0	0	0	0	0	20	0	0	0	0	0	0	40	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.33	0.00	0.00	0.00	0.00	0.00	0.00	66.67	0.00
31	Nam Long Shan Road	1	1045	595	190	0	30	15	0	10	20	30	30	15	10	15	20	45	20	56.94	18.18	0.00	2.87	1.44	0.00	0.96	1.91	2.87	2.87	1.44	0.96	1.44	1.91	4.31	1.91
32	Nam Long Shan Road	1	1000	555	185	0	30	15	0	15	20	30	25	15	10	15	20	45	20	55.50	18.50	0.00	3.00	1.50	0.00	1.50	2.00	3.00	2.50	1.50	1.00	1.50	2.00	4.50	2.00
33	Welfare Road	1	120	75	25	0	10	0	0	0	0	0	0	0	0	0	0	0	10	62.50	20.83	0.00	8.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.33
34	Welfare Road	1	60	45	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	Shum Wan Road	1	445	170	125	0	15	10	0	0	20	15	15	10	5	10	20	20	10	38.20	28.09	0.00	3.37	2.25	0.00	0.00	4.49	3.37	3.37	2.25	1.12	2.25	4.49	4.49	2.25
36	Shum Wan Road	1	590	210	180	0	20	10	0	0	25	20	15	15	10	20	30	25	10	35.59	30.51	0.00	3.39	1.69	0.00	0.00	4.24	3.39	2.54	2.54	1.69	3.39	5.08	4.24	1.69
37	Shum Wan Pier Drive	1	85	40	15	0	5	0	0	0	5	5	5	5	0	0	0	5	0	47.06	17.65	0.00	5.88	0.00	0.00	0.00	5.88	5.88	5.88	5.88	0.00	0.00	0.00	5.88	0.00
38	Nam Long Shan Road	1	1125	615	230	0	30	15	0	15	20	30	30	15	10	20	30	45	20	54.67	20.44	0.00	2.67	1.33	0.00	1.33	1.78	2.67	2.67	1.33	0.89	1.78	2.67	4.00	1.78
39	Nam Long Shan Road	1	200	130	30	0	0	0	0	0	0	10	10	0	0	0	0	10	10	65.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	5.00	0.00	0.00	0.00	0.00	5.00	5.00
40	Nam Long Shan Road	1	265	170	35	0	10	0	0	0	10	10	10	0	0	0	0	10	10	64.15	13.21	0.00	3.77	0.00	0.00	0.00	3.77	3.77	3.77	0.00	0.00	0.00	0.00	3.77	3.77
41	Police School Road	1	1105	600	230	0	30	15	0	10	20	30	30	15	10	20	30	45	20	54.30	20.81	0.00	2.71	1.36	0.00	0.90	1.81	2.71	2.71	1.36	0.90	1.81	2.71	4.07	1.81
42#	Police School Road		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 10-11)

Emission Factor Calculations (Hour: 00-01)

Hour: 10-11				% of Total Flow x Emission Factor (NOx)																	% of Total Flow x Emission Factor (RSP)																		Composite Emission Factor (g/veh·km)	
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	NOx	RSP
1	Yip Hing St	1	105	2.32	6.72	0.00	8.93	23.16	27.92	75.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.66	0.82	2.03	5.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.448	0.090
2	Tong Bin Lane	1	110	2.46	6.42	0.00	8.52	22.11	26.65	72.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.63	0.79	1.93	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.385	0.086
3	Tong Bin Lane (near J/Wong Chuk	1	240	2.14	6.86	0.00	7.81	10.13	18.32	77.33	0.00	0.00	0.00	10.90	22.21	35.24	0.00	0.00	0.00	0.30	0.00	0.00	0.57	0.36	1.33	5.22	0.00	0.00	0.00	0.85	1.51	2.13	0.00	0.00	0.00	1.909	0.123
4	Yip Kan St	1	315	2.06	6.72	0.00	8.93	15.44	13.96	75.75	0.00	0.54	0.00	8.30	16.92	26.85	0.00	0.00	0.00	0.29	0.00	0.00	0.66	0.55	1.01	5.12	0.00	0.08	0.00	0.65	1.15	1.63	0.00	0.00	0.00	1.755	0.111
5	Wong Chuk Hang Road	2	1865	1.93	7.19	0.00	6.19	8.04	1.22	7.43	5.03	0.38	1.76	1.97	2.01	3.18	4.61	44.54	1.02	0.19	0.00	0.00	0.40	0.23	0.07	0.37	0.42	0.04	0.08	0.15	0.13	0.16	0.04	0.47	0.02	0.965	0.028
6	Wong Chuk Hang Road	2	2100	1.95	7.13	0.00	6.41	8.40	1.09	7.54	4.94	0.34	1.57	1.75	1.78	2.82	4.10	45.21	1.07	0.19	0.00	0.00	0.41	0.24	0.06	0.38	0.41	0.04	0.07	0.13	0.12	0.14	0.03	0.47	0.03	0.961	0.027
7	Wong Chuk Hang Road	2	905	1.45	5.66	0.00	4.68	5.85	0.00	4.37	11.46	0.31	1.82	4.06	4.14	6.54	6.34	111.45	0.76	0.14	0.00	0.00	0.30	0.17	0.00	0.22	0.95	0.03	0.09	0.30	0.27	0.32	0.05	1.17	0.02	1.689	0.040
8	Wong Chuk Hang Road(flyover)	3	1225	1.70	6.13	0.00	6.48	7.37	1.51	6.66	1.75	0.28	1.86	1.14	2.34	3.71	1.90	14.20	1.11	0.10	0.00	0.00	0.25	0.20	0.06	0.25	0.09	0.02	0.09	0.11	0.20	0.19	0.02	0.16	0.02	0.582	0.018
9	Wong Chuk Hang Road	2	1385	2.29	7.54	0.00	2.50	3.19	1.65	8.57	2.50	0.15	0.89	1.99	2.70	6.41	10.35	66.40	0.25	0.23	0.00	0.00	0.16	0.09	0.09	0.43	0.21	0.02	0.04	0.15	0.18	0.31	0.08	0.70	0.01	1.174	0.027
10	Wong Chuk Hang Road	2	1075	2.23	7.88	0.00	2.51	3.28	2.12	7.36	2.76	0.20	0.38	1.71	3.48	8.26	13.34	63.47	0.32	0.22	0.00	0.00	0.16	0.09	0.12	0.37	0.23	0.02	0.02	0.13	0.23	0.41	0.11	0.67	0.01	1.193	0.028
11	Wong Chuk Hang Road	2	880	2.27	8.51	0.00	2.19	3.01	2.59	9.00	2.24	0.08	0.47	2.09	0.00	3.36	16.29	60.68	0.39	0.22	0.00	0.00	0.14	0.09	0.14	0.45	0.19	0.01	0.02	0.16	0.00	0.17	0.13	0.64	0.01	1.132	0.024
12	Wong Chuk Hang Road(flyover)	3	1465	1.75	5.77	0.00	6.41	7.11	1.26	7.80	2.19	0.32	1.56	0.96	1.95	3.11	0.00	15.26	1.16	0.10	0.00	0.00	0.25	0.19	0.05	0.29	0.12	0.02	0.08	0.09	0.17	0.16	0.00	0.17	0.02	0.566	0.017
13	Wong Chuk Hang Road	2	810	0.36	4.87	0.00	2.38	3.27	0.00	0.00	22.55	0.35	1.01	2.27	4.62	7.31	14.16	245.38	0.21	0.04	0.00	0.00	0.15	0.09	0.00	0.00	1.87	0.04	0.05	0.17	0.31	0.36	0.11	2.58	0.01	3.087	0.058
14	Wong Chuk Hang Road	2	410	1.46	6.73	0.00	3.75	4.30	0.00	0.00	12.04	0.35	2.00	4.48	0.00	0.00	20.98	101.30	0.84	0.14	0.00	0.00	0.24	0.12	0.00	0.00	1.00	0.04	0.09	0.34	0.00	0.00	0.17	1.06	0.02	1.582	0.032
15	Wong Chuk Hang Road	2	1885	1.95	6.90	0.00	6.33	8.43	1.21	7.35	4.98	0.38	1.74	1.95	1.99	3.14	4.56	45.64	1.01	0.19	0.00	0.00	0.41	0.24	0.07	0.37	0.41	0.04	0.08	0.15	0.13	0.15	0.04	0.48	0.02	0.975	0.028
16	Nam Long Shan Road	1	1265	2.48	9.30	0.00	2.96	4.81	2.32	8.38	5.38	0.41	2.35	4.14	4.21	10.03	19.27	78.11	0.62	0.35	0.00	0.00	0.22	0.17	0.17	0.57	0.79	0.06	0.13	0.32	0.29	0.61	0.16	0.95	0.03	1.548	0.048
17	Heung Yip Road	1	680	2.95	3.81	0.00	8.96	14.30	0.00	11.70	0.00	1.00	4.38	5.77	7.84	12.44	0.00	0.00	1.73	0.42	0.00	0.00	0.66	0.51	0.00	0.79	0.00	0.14	0.25	0.45	0.53	0.75	0.00	0.00	0.08	0.749	0.046
18	Heung Yip Road	1	835	3.02	3.66	0.00	8.42	14.56	3.51	9.53	0.00	0.82	4.76	6.26	6.38	15.19	0.00	0.00	1.41	0.43	0.00	0.00	0.62	0.52	0.25	0.64	0.00	0.12	0.27	0.49	0.43	0.92	0.00	0.00	0.07	0.775	0.048
19	Heung Yip Road	1	1095	2.97	3.87	0.00	8.99	13.32	2.68	12.11	0.00	0.94	4.53	5.97	7.30	11.59	0.00	0.00	1.43	0.42	0.00	0.00	0.66	0.47	0.19	0.82	0.00	0.13	0.25	0.46	0.50	0.70	0.00	0.00	0.07	0.757	0.047
20	Yip Fat St	1	480	2.93	3.43	0.00	8.79	15.20	0.00	16.57	0.00	0.89	4.14	5.45	11.10	17.62	0.00	0.00	1.63	0.41	0.00	0.00	0.65	0.54	0.00	1.12	0.00	0.13	0.23	0.42	0.75	1.07	0.00	0.00	0.08	0.878	0.054
21	Heung Yip Road	1	615	3.04	4.21	0.00	8.38	13.84	0.00	8.62	0.00	0.83	4.84	4.25	8.67	13.75	0.00	0.00	1.59	0.43	0.00	0.00	0.62	0.49	0.00	0.58	0.00	0.12	0.27	0.33	0.59	0.83	0.00	0.00	0.08	0.720	0.043
22	Yip Fat St	1	10	5.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.054	0.008
23	Yip Fat St	1	365	2.97	3.87	0.00	10.27	16.66	0.00	14.53	0.00	0.94	5.44	7.17	0.00	0.00	0.00	0.00	1.07	0.42	0.00	0.00	0.76	0.59	0.00	0.98	0.00	0.13	0.31	0.56	0.00	0.00	0.00	0.00	0.05	0.629	0.038
24	Heung Yip Road	1	595	3.10	3.16	0.00	8.67	14.30	0.00	8.91	0.00	0.86	5.01	4.40	8.96	14.21	0.00	0.00	1.65	0.44	0.00	0.00	0.64	0.51	0.00	0.60	0.00	0.12	0.28	0.34	0.61	0.86	0.00	0.00	0.08	0.732	0.045
25	Heung Yip Road	1	635	3.24	5.56	0.00	6.64	11.49	0.00	12.53	0.00	0.67	3.91	4.12	0.00	0.00	0.00	12.97	1.24	0.46	0.00	0.00	0.49	0.41	0.00	0.85	0.00	0.10	0.22	0.32	0.00	0.00	0.00	0.16	0.06	0.624	0.031
26	Heung Yip Road	1	890	3.20	5.55	0.00	5.79	9.56	3.29	8.94	0.00	0.77	3.35	4.41	5.99	9.50	0.00	9.25	1.32	0.45	0.00	0.00	0.43	0.34	0.24	0.60	0.00	0.11	0.19	0.34	0.41	0.58	0.00	0.11	0.06	0.709	0.039
27	Heung Yip Road	1	235	3.34	4.01	0.00	9.97	15.52	0.00	0.00	0.00	0.73	4.23	0.00	0.00	0.00	0.00	0.00	1.67	0.47	0.00	0.00	0.73	0.55	0.00	0.00	0.00	0.10	0.24	0.00	0.00	0.00	0.00	0.00	0.08	0.395	0.022
28	Heung Yip Road	1	400	2.98	3.53	0.00	7.03	12.16	0.00	13.26	0.00	0.85	4.97	6.54	13.32	21.14	0.00	0.00	1.96	0.42	0.00	0.00	0.52	0.43	0.00	0.90	0.00	0.12	0.28	0.51	0.90	1.28	0.00	0.00	0.09	0.877	0.055
29	Heung Yip Road	1	435	2.93	3.79	0.00	8.62	13.98	0.00	12.19	0.00	0.79	4.57	6.01	12.25	19.44	0.00	0.00	1.80	0.41	0.00	0.00	0.63	0.50	0.00	0.82	0.00	0.11	0.26	0.47	0.83	1.18	0.00	0.00	0.09	0.864	0.053
30	Nam Long Shan Road	1	60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.92	0.00	0.00	0.00	0.00	0.00	0.00	548.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.12	0.00	0.00	0.00	0.00	0.00	0.00	6.68	0.00	5.839	0.118
31	Nam Long Shan Road	1	1045	3.08	8.56	0.00	2.69	3.49	0.00	5.07	2.01	0.49	2.85	3.75	5.10	12.14	15.55	35.46	0.75	0.43	0.00	0.00	0.20	0.12	0.00	0.34	0.29	0.07	0.16	0.29	0.35	0.74	0.13	0.43	0.04	1.010	0.036
32	Nam Long Shan Road	1	1000	3.01	8.71	0.00	2.81	3.65	0.00	7.95	2.10	0.51	2.48	3.92	5.33	12.69	16.25	37.06	0.78	0.42	0.00	0.00	0.21	0.13	0.00	0.54	0.31	0.07	0.14	0.31	0.36	0.77	0.14	0.45	0.04	1.072	0.039
33	Welfare Road	1	120	3.39	9.81	0.00	7.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.27	0.48	0.00	0.00	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.243	0.012
34	Welfare Road	1	60	4.06	11.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.158	0.006
35	Shum Wan Road	1	445	2.07	13.22	0.00	3.16	5.46	0.00	0.00	4.71	0.58	3.35	5.88	5.99	19.01	36.52	37.01	0.88	0.29	0.00	0.00	0.23	0.19	0.00	0.00	0.69	0.08	0.19	0.46	0.41	1.15	0.31	0.45	0.04	1.378	0.045
36	Shum Wan Road	1	590	1.93	14.36	0.00	3.18	4.12	0.00	0.00	4.44	0.58	2.52	6.65	9.03	28.67	41.32	34.89	0.66	0.27	0.00	0.00	0.23	0.15	0.00	0.00	0.65	0.08	0.14	0.52	0.61	1.74	0.35	0.42	0.03	1.524	0.052
37	Shum Wan Pier Drive	1	85	2.55	8.31	0.00	5.51	0.00	0.00	0.00	6.16	1.00	5.84	15.39	0.00	0.00	0.00	48.44	0.00	0.36	0.00	0.00	0.41	0.00	0.00	0.00	0.90	0.14	0.33	1.20	0.00	0.00	0.00	0.59	0.00	0.932	0.039
38	Nam Long Shan Road	1	1125	2.96	9.62	0.00	2.50	3.24	0.00	7.07	1.86	0.46	2.65	3.49	4.74	15.04	21.67	32.94	0.70	0.42	0.00	0.00	0.18	0.12	0.00	0.48	0.27	0.06	0.15	0.27	0.32	0.91	0.18	0.40	0.03	1.089	0.038
39	Nam Long Shan Road	1	200	3.52	7.06	0.00	0.00	0.00	0.00	0.00	0.00	0.85	4.97	0.00	0.00	0.00	0.00	41.17	1.96	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.28	0.00	0.00	0.00	0.00	0.50	0.09	0.595	0.015
40	Nam Long Shan Road	1	265	3.48	6.22	0.00	3.54	0.00	0.00	0.00	3.95	0.64	3.75	0.00	0.00	0.00	0.00	31.07	1.48	0.49	0.00	0.00	0.26	0.00	0.00	0.00	0.58	0.09	0.21	0.00	0.00	0.00	0.00	0.38	0.07	0.541	0.021
41	Police School Road	1	1105	2.94	9.80	0.00	2.55	3.30	0.00	4.80	1.90	0.46	2.70	3.55	4.82	15.31	22.06	33.53	0.71	0.41	0.00	0.00	0.19	0.12	0.00	0.32	0.28	0.07	0.15	0.28	0.33	0.93	0.19	0.41	0.03	1.084	0.037
42#	Police School Road		NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	#VALUE!	#VALUE!

Emission Factors from EMFAC (Type 1 Local Road - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0542	0.4707	0.0000	0.9374	2.4317	2.9313	5.3024	1.0476	0.1708	0.9930	2.6156	5.3298	8.4577	8.1260	8.2346	0.3922
RSP	0.0076	0.0000	0.0000	0.0690	0.0864	0.2128	0.3582	0.1535	0.0242	0.0558	0.2035	0.3619	0.5121	0.0682	0.1002	0.0189

Emission Factors from EMFAC (Type 2 Primary Distributor - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0444	0.3942	0.0000	0.7697	1.7648	2.2822	3.9584	0.9873	0.1416	0.8220	1.8367	3.7449	5.9223	5.7343	5.9332	0.3453
RSP	0.0044	0.0000	0.0000	0.0496	0.0506	0.1241	0.1991	0.0819	0.0149	0.0388	0.1377	0.2486	0.2906	0.0465	0.0623	0.0083

Emission Factors from EMFAC (Type 3 Primary Distributor - 70kph)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0357	0.3131	0.0000	0.7219	1.3889	1.8460	3.2629	1.0700	0.1161	0.7610	1.4014	2.8622	4.5508	4.6529	4.9684	0.3409
RSP	0.0021	0.0000	0.0000	0.0277	0.0379	0.0691	0.1226	0.0577	0.0078	0.0383	0.1362	0.2487	0.2334	0.0469	0.0558	0.0070

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 11-12)

Traffic (Hour: 11-12)

Hour: 11-12				Flow Rate (veh./hr)																% of Total Flow															
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
1	Yip Hing St	1	110	45	15	0	10	10	10	15	0	0	0	0	0	0	0	0	5	40.91	13.64	0.00	9.09	9.09	9.09	13.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.55
2	Tong Bin Lane	1	115	50	15	0	10	10	10	15	0	0	0	0	0	0	0	0	5	43.48	13.04	0.00	8.70	8.70	8.70	13.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.35
3	Tong Bin Lane (near J/Wong Chuk	1	240	95	40	0	20	10	15	40	0	0	0	5	5	5	0	0	5	39.58	16.67	0.00	8.33	4.17	6.25	16.67	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	2.08
4	Yip Kan St	1	300	120	45	0	30	20	15	45	0	5	0	5	5	5	0	0	5	40.00	15.00	0.00	10.00	6.67	5.00	15.00	0.00	1.67	0.00	1.67	1.67	1.67	0.00	0.00	1.67
5	Wong Chuk Hang Road	2	1845	790	325	0	155	90	15	40	90	45	35	25	15	15	15	135	55	42.82	17.62	0.00	8.40	4.88	0.81	2.17	4.88	2.44	1.90	1.36	0.81	0.81	0.81	7.32	2.98
6	Wong Chuk Hang Road	2	2095	900	365	5	180	105	15	45	105	45	40	25	15	15	15	155	65	42.96	17.42	0.24	8.59	5.01	0.72	2.15	5.01	2.15	1.91	1.19	0.72	0.72	0.72	7.40	3.10
7	Wong Chuk Hang Road	2	900	280	135	0	55	35	5	10	100	20	20	20	10	10	10	170	20	31.11	15.00	0.00	6.11	3.89	0.56	1.11	11.11	2.22	2.22	2.22	1.11	1.11	1.11	18.89	2.22
8	Wong Chuk Hang Road(flyover)	3	1220	575	230	0	115	65	15	30	25	25	25	10	10	10	5	35	45	47.13	18.85	0.00	9.43	5.33	1.23	2.46	2.05	2.05	2.05	0.82	0.82	0.82	0.41	2.87	3.69
9	Wong Chuk Hang Road	2	1345	680	245	0	50	25	10	30	35	20	20	15	15	20	25	145	10	50.56	18.22	0.00	3.72	1.86	0.74	2.23	2.60	1.49	1.49	1.12	1.12	1.49	1.86	10.78	0.74
10	Wong Chuk Hang Road	2	1045	510	195	0	35	25	10	20	30	15	10	15	15	20	25	110	10	48.80	18.66	0.00	3.35	2.39	0.96	1.91	2.87	1.44	0.96	1.44	1.44	1.91	2.39	10.53	0.96
11	Wong Chuk Hang Road	2	850	425	170	0	25	15	10	20	25	10	5	15	5	10	20	85	10	50.00	20.00	0.00	2.94	1.76	1.18	2.35	2.94	1.18	0.59	1.76	0.59	1.18	2.35	10.00	1.18
12	Wong Chuk Hang Road(flyover)	3	1460	705	260	0	135	80	15	40	35	35	25	15	10	10	0	40	55	48.29	17.81	0.00	9.25	5.48	1.03	2.74	2.40	2.40	1.71	1.03	0.68	0.68	0.00	2.74	3.77
13	Wong Chuk Hang Road	2	810	75	100	0	30	15	0	0	170	15	5	10	10	10	25	340	5	9.26	12.35	0.00	3.70	1.85	0.00	0.00	20.99	1.85	0.62	1.23	1.23	1.23	3.09	41.98	0.62
14	Wong Chuk Hang Road	2	430	130	75	0	25	15	0	5	45	10	10	10	5	5	10	75	10	30.23	17.44	0.00	5.81	3.49	0.00	1.16	10.47	2.33	2.33	2.33	1.16	1.16	2.33	17.44	2.33
15	Wong Chuk Hang Road	2	1885	810	325	5	160	95	15	40	95	45	35	25	15	15	10	140	55	42.97	17.24	0.27	8.49	5.04	0.80	2.12	5.04	2.39	1.86	1.33	0.80	0.80	0.53	7.43	2.92
16	Nam Long Shan Road	1	1225	560	220	0	45	25	10	20	65	25	25	20	15	20	25	125	25	45.71	17.96	0.00	3.67	2.04	0.82	1.63	5.31	2.04	2.04	1.63	1.22	1.63	2.04	10.20	2.04
17	Heung Yip Road	1	675	355	55	0	70	40	5	15	0	40	30	15	10	10	0	0	30	52.59	8.15	0.00	10.37	5.93	0.74	2.22	0.00	5.93	4.44	2.22	1.48	1.48	0.00	0.00	4.44
18	Heung Yip Road	1	820	440	65	0	85	50	10	15	0	40	40	20	10	15	0	0	30	53.66	7.93	0.00	10.37	6.10	1.22	1.83	0.00	4.88	4.88	2.44	1.22	1.83	0.00	0.00	3.66
19	Heung Yip Road	1	1075	570	90	0	110	65	10	25	0	60	50	25	15	15	0	0	40	53.02	8.37	0.00	10.23	6.05	0.93	2.33	0.00	5.58	4.65	2.33	1.40	1.40	0.00	0.00	3.72
20	Yip Fat St	1	490	255	40	0	50	30	5	15	0	25	20	10	10	10	0	0	20	52.04	8.16	0.00	10.20	6.12	1.02	3.06	0.00	5.10	4.08	2.04	2.04	2.04	0.00	0.00	4.08
21	Heung Yip Road	1	595	320	55	0	60	35	0	10	0	30	30	10	10	10	0	0	25	53.78	9.24	0.00	10.08	5.88	0.00	1.68	0.00	5.04	5.04	1.68	1.68	1.68	0.00	0.00	4.20
22	Yip Fat St	1	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	Yip Fat St	1	365	190	30	0	40	25	0	10	0	20	20	10	5	5	0	0	10	52.05	8.22	0.00	10.96	6.85	0.00	2.74	0.00	5.48	5.48	2.74	1.37	1.37	0.00	0.00	2.74
24	Heung Yip Road	1	580	320	40	0	60	35	0	10	0	30	30	10	10	10	0	0	25	55.17	6.90	0.00	10.34	6.03	0.00	1.72	0.00	5.17	5.17	1.72	1.72	1.72	0.00	0.00	4.31
25	Heung Yip Road	1	635	365	75	0	50	30	5	15	0	25	25	10	5	5	0	5	20	57.48	11.81	0.00	7.87	4.72	0.79	2.36	0.00	3.94	3.94	1.57	0.79	0.79	0.00	0.79	3.15
26	Heung Yip Road	1	855	490	100	0	60	40	10	15	0	40	30	15	10	10	0	5	30	57.31	11.70	0.00	7.02	4.68	1.17	1.75	0.00	4.68	3.51	1.75	1.17	1.17	0.00	0.58	3.51
27	Heung Yip Road	1	235	135	20	0	25	15	0	5	0	10	10	5	0	0	0	0	10	57.45	8.51	0.00	10.64	6.38	0.00	2.13	0.00	4.26	4.26	2.13	0.00	0.00	0.00	0.00	4.26
28	Heung Yip Road	1	370	200	30	0	30	20	0	10	0	20	20	10	5	5	0	0	20	54.05	8.11	0.00	8.11	5.41	0.00	2.70	0.00	5.41	5.41	2.70	1.35	1.35	0.00	0.00	5.41
29	Heung Yip Road	1	430	225	35	0	40	30	0	10	0	20	20	10	10	10	0	0	20	52.33	8.14	0.00	9.30	6.98	0.00	2.33	0.00	4.65	4.65	2.33	2.33	2.33	0.00	0.00	4.65
30	Nam Long Shan Road	1	60	0	0	0	0	0	0	0	20	0	0	0	0	0	0	40	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.33	0.00	0.00	0.00	0.00	0.00	0.00	66.67	0.00
31	Nam Long Shan Road	1	995	555	165	0	35	20	5	10	20	30	30	15	10	15	15	50	20	55.78	16.58	0.00	3.52	2.01	0.50	1.01	2.01	3.02	3.02	1.51	1.01	1.51	1.51	5.03	2.01
32	Nam Long Shan Road	1	965	525	165	0	35	20	5	15	20	30	25	15	10	15	15	50	20	54.40	17.10	0.00	3.63	2.07	0.52	1.55	2.07	3.11	2.59	1.55	1.04	1.55	1.55	5.18	2.07
33	Welfare Road	1	115	70	25	0	10	5	0	0	0	0	0	0	0	0	0	0	5	60.87	21.74	0.00	8.70	4.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.35
34	Welfare Road	1	75	50	15	0	5	5	0	0	0	0	0	0	0	0	0	0	0	66.67	20.00	0.00	6.67	6.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	Shum Wan Road	1	465	190	115	0	15	10	0	0	20	20	15	10	10	15	15	20	10	40.86	24.73	0.00	3.23	2.15	0.00	0.00	4.30	4.30	3.23	2.15	2.15	3.23	3.23	4.30	2.15
36	Shum Wan Road	1	555	210	150	0	20	10	0	0	25	20	20	15	10	15	25	25	10	37.84	27.03	0.00	3.60	1.80	0.00	0.00	4.50	3.60	3.60	2.70	1.80	2.70	4.50	4.50	1.80
37	Shum Wan Pier Drive	1	110	50	15	0	5	5	0	0	5	5	5	5	0	5	0	5	5	45.45	13.64	0.00	4.55	4.55	0.00	0.00	4.55	4.55	4.55	4.55	0.00	4.55	0.00	4.55	4.55
38	Nam Long Shan Road	1	1065	570	200	0	40	20	5	15	20	30	30	15	10	15	25	50	20	53.52	18.78	0.00	3.76	1.88	0.47	1.41	1.88	2.82	2.82	1.41	0.94	1.41	2.35	4.69	1.88
39	Nam Long Shan Road	1	180	115	30	0	5	5	0	0	0	5	5	0	0	0	0	10	5	63.89	16.67	0.00	2.78	2.78	0.00	0.00	0.00	2.78	2.78	0.00	0.00	0.00	0.00	5.56	2.78
40	Nam Long Shan Road	1	230	155	30	0	10	5	0	0	5	5	5	0	0	0	0	10	5	67.39	13.04	0.00	4.35	2.17	0.00	0.00	2.17	2.17	2.17	0.00	0.00	0.00	0.00	4.35	2.17
41	Police School Road	1	1020	550	195	0	35	15	0	10	20	30	30	15	10	15	25	50	20	53.92	19.12	0.00	3.43	1.47	0.00	0.98	1.96	2.94	2.94	1.47	0.98	1.47	2.45	4.90	1.96
42#	Police School Road		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 11-12)

Emission Factor Calculations (Hour: 00-01)

Hour: 11-12				% of Total Flow x Emission Factor (NOx)																	% of Total Flow x Emission Factor (RSP)																		Composite Emission Factor (g/veh·km)	
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	NOx	RSP
1	Yip Hing St	1	110	2.21	6.40	0.00	8.51	21.94	27.07	71.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.77	0.31	0.00	0.00	0.63	0.78	1.99	4.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	1.399	0.087
2	Tong Bin Lane	1	115	2.35	6.12	0.00	8.14	20.99	25.89	68.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.69	0.33	0.00	0.00	0.60	0.75	1.91	4.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	1.340	0.083
3	Tong Bin Lane (near J/Wong Chuk	1	240	2.14	7.82	0.00	7.80	10.06	18.61	87.97	0.00	0.00	0.00	5.42	11.08	17.53	0.00	0.00	0.81	0.30	0.00	0.00	0.57	0.36	1.37	5.94	0.00	0.00	0.00	0.42	0.75	1.06	0.00	0.00	0.04	1.692	0.108
4	Yip Kan St	1	300	2.16	7.04	0.00	9.36	16.09	14.89	79.17	0.00	0.28	0.00	4.34	8.87	14.03	0.00	0.00	0.65	0.31	0.00	0.00	0.69	0.57	1.10	5.35	0.00	0.04	0.00	0.34	0.60	0.85	0.00	0.00	0.03	1.569	0.099
5	Wong Chuk Hang Road	2	1845	1.90	6.92	0.00	6.45	8.60	1.85	8.55	4.80	0.34	1.55	2.49	3.05	4.83	4.66	43.34	1.02	0.19	0.00	0.00	0.42	0.25	0.10	0.43	0.40	0.04	0.07	0.19	0.20	0.24	0.04	0.46	0.02	1.004	0.030
6	Wong Chuk Hang Road	2	2095	1.90	6.84	0.14	6.60	8.83	1.63	8.47	4.93	0.30	1.56	2.20	2.68	4.25	4.10	43.82	1.07	0.19	0.00	0.01	0.43	0.25	0.09	0.43	0.41	0.03	0.07	0.17	0.18	0.21	0.03	0.46	0.03	0.993	0.030
7	Wong Chuk Hang Road	2	900	1.38	5.89	0.00	4.69	6.85	1.27	4.38	10.92	0.31	1.82	4.09	4.17	6.60	6.36	111.87	0.76	0.14	0.00	0.00	0.30	0.20	0.07	0.22	0.91	0.03	0.09	0.31	0.28	0.33	0.05	1.18	0.02	1.714	0.041
8	Wong Chuk Hang Road(flyover)	3	1220	1.68	5.89	0.00	6.79	7.39	2.27	8.01	2.18	0.24	1.55	1.15	2.34	3.72	1.90	14.23	1.25	0.10	0.00	0.00	0.26	0.20	0.09	0.30	0.12	0.02	0.08	0.11	0.20	0.19	0.02	0.16	0.03	0.606	0.019
9	Wong Chuk Hang Road	2	1345	2.24	7.16	0.00	2.85	3.28	1.69	8.80	2.56	0.21	1.22	2.05	4.18	8.84	10.64	63.85	0.26	0.22	0.00	0.00	0.18	0.09	0.09	0.44	0.21	0.02	0.06	0.15	0.28	0.44	0.09	0.67	0.01	1.198	0.030
10	Wong Chuk Hang Road	2	1045	2.16	7.33	0.00	2.57	4.22	2.18	7.55	2.82	0.20	0.78	2.64	5.38	11.37	13.70	62.34	0.33	0.21	0.00	0.00	0.17	0.12	0.12	0.38	0.24	0.02	0.04	0.20	0.36	0.56	0.11	0.66	0.01	1.256	0.032
11	Wong Chuk Hang Road	2	850	2.22	7.86	0.00	2.26	3.11	2.68	9.28	2.89	0.17	0.48	3.25	2.21	6.99	13.48	59.23	0.40	0.22	0.00	0.00	0.15	0.09	0.15	0.47	0.24	0.02	0.02	0.24	0.15	0.35	0.11	0.62	0.01	1.165	0.028
12	Wong Chuk Hang Road(flyover)	3	1460	1.72	5.56	0.00	6.66	7.60	1.89	8.92	2.55	0.28	1.30	1.44	1.96	3.11	0.00	13.59	1.28	0.10	0.00	0.00	0.26	0.21	0.07	0.34	0.14	0.02	0.07	0.14	0.17	0.16	0.00	0.15	0.03	0.579	0.018
13	Wong Chuk Hang Road	2	810	0.41	4.85	0.00	2.84	3.26	0.00	0.00	20.64	0.26	0.51	2.27	4.63	7.34	17.68	248.60	0.21	0.04	0.00	0.00	0.18	0.09	0.00	0.00	1.72	0.03	0.02	0.17	0.31	0.36	0.14	2.62	0.01	3.135	0.057
14	Wong Chuk Hang Road	2	430	1.34	6.85	0.00	4.46	6.15	0.00	4.59	10.29	0.33	1.91	4.28	4.36	6.91	13.32	103.30	0.80	0.13	0.00	0.00	0.29	0.18	0.00	0.23	0.86	0.03	0.09	0.32	0.29	0.34	0.11	1.09	0.02	1.689	0.040
15	Wong Chuk Hang Road	2	1885	1.90	6.77	0.15	6.52	8.88	1.81	8.37	4.96	0.34	1.52	2.44	2.98	4.73	3.04	43.99	1.00	0.19	0.00	0.01	0.42	0.26	0.10	0.42	0.41	0.04	0.07	0.18	0.20	0.23	0.02	0.46	0.02	0.994	0.030
16	Nam Long Shan Road	1	1225	2.47	8.42	0.00	3.44	4.93	2.43	8.62	5.53	0.35	2.02	4.25	6.51	13.74	16.55	83.92	0.80	0.35	0.00	0.00	0.25	0.17	0.18	0.58	0.81	0.05	0.11	0.33	0.44	0.83	0.14	1.02	0.04	1.640	0.053
17	Heung Yip Road	1	675	2.84	3.82	0.00	9.70	14.30	2.21	11.73	0.00	1.01	4.40	5.79	7.88	12.47	0.00	0.00	1.73	0.40	0.00	0.00	0.71	0.51	0.16	0.79	0.00	0.14	0.25	0.45	0.54	0.76	0.00	0.00	0.08	0.779	0.048
18	Heung Yip Road	1	820	2.90	3.72	0.00	9.70	14.72	3.63	9.66	0.00	0.83	4.83	6.35	6.49	15.40	0.00	0.00	1.43	0.41	0.00	0.00	0.71	0.52	0.27	0.65	0.00	0.12	0.27	0.49	0.44	0.93	0.00	0.00	0.07	0.796	0.049
19	Heung Yip Road	1	1075	2.86	3.93	0.00	9.58	14.59	2.77	12.27	0.00	0.95	4.61	6.06	7.42	11.74	0.00	0.00	1.45	0.40	0.00	0.00	0.71	0.52	0.20	0.83	0.00	0.13	0.26	0.47	0.50	0.71	0.00	0.00	0.07	0.782	0.048
20	Yip Fat St	1	490	2.81	3.83	0.00	9.55	14.78	3.04	16.16	0.00	0.87	4.04	5.31	10.86	17.18	0.00	0.00	1.59	0.40	0.00	0.00	0.70	0.52	0.22	1.09	0.00	0.12	0.23	0.41	0.74	1.04	0.00	0.00	0.08	0.900	0.056
21	Heung Yip Road	1	595	2.90	4.34	0.00	9.44	14.20	0.00	8.87	0.00	0.86	4.99	4.38	8.94	14.14	0.00	0.00	1.64	0.41	0.00	0.00	0.70	0.50	0.00	0.60	0.00	0.12	0.28	0.34	0.61	0.86	0.00	0.00	0.08	0.747	0.045
22	Yip Fat St	1	5	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.054	0.008
23	Yip Fat St	1	365	2.81	3.86	0.00	10.26	16.53	0.00	14.46	0.00	0.93	5.43	7.13	7.29	11.53	0.00	0.00	1.07	0.40	0.00	0.00	0.76	0.59	0.00	0.98	0.00	0.13	0.31	0.56	0.50	0.70	0.00	0.00	0.05	0.813	0.050
24	Heung Yip Road	1	580	2.98	3.24	0.00	9.68	14.56	0.00	9.10	0.00	0.88	5.12	4.49	9.17	14.51	0.00	0.00	1.68	0.42	0.00	0.00	0.71	0.52	0.00	0.61	0.00	0.12	0.29	0.35	0.62	0.88	0.00	0.00	0.08	0.754	0.046
25	Heung Yip Road	1	635	3.10	5.54	0.00	7.37	11.40	2.34	12.47	0.00	0.67	3.90	4.10	4.19	6.63	0.00	6.48	1.23	0.44	0.00	0.00	0.54	0.41	0.17	0.84	0.00	0.10	0.22	0.32	0.28	0.40	0.00	0.08	0.06	0.694	0.039
26	Heung Yip Road	1	855	3.09	5.49	0.00	6.57	11.29	3.48	9.26	0.00	0.80	3.47	4.57	6.22	9.84	0.00	4.81	1.37	0.44	0.00	0.00	0.48	0.40	0.26	0.63	0.00	0.11	0.20	0.36	0.42	0.60	0.00	0.06	0.07	0.703	0.040
27	Heung Yip Road	1	235	3.10	3.99	0.00	9.96	15.41	0.00	11.23	0.00	0.72	4.21	5.54	0.00	0.00	0.00	0.00	1.66	0.44	0.00	0.00	0.73	0.55	0.00	0.76	0.00	0.10	0.24	0.43	0.00	0.00	0.00	0.00	0.08	0.558	0.033
28	Heung Yip Road	1	370	2.92	3.80	0.00	7.59	13.05	0.00	14.27	0.00	0.92	5.35	7.04	7.19	11.37	0.00	0.00	2.11	0.41	0.00	0.00	0.56	0.46	0.00	0.96	0.00	0.13	0.30	0.55	0.49	0.69	0.00	0.00	0.10	0.756	0.047
29	Heung Yip Road	1	430	2.83	3.82	0.00	8.70	16.84	0.00	12.27	0.00	0.79	4.61	6.06	12.37	19.57	0.00	0.00	1.81	0.40	0.00	0.00	0.64	0.60	0.00	0.83	0.00	0.11	0.26	0.47	0.84	1.19	0.00	0.00	0.09	0.897	0.054
30	Nam Long Shan Road	1	60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.76	0.00	0.00	0.00	0.00	0.00	0.00	548.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.11	0.00	0.00	0.00	0.00	0.00	0.00	6.68	0.00	5.830	0.118
31	Nam Long Shan Road	1	995	3.01	7.78	0.00	3.29	4.85	1.50	5.30	2.10	0.51	2.99	3.93	5.35	12.69	12.23	41.33	0.78	0.43	0.00	0.00	0.24	0.17	0.11	0.36	0.31	0.07	0.17	0.31	0.36	0.77	0.10	0.50	0.04	1.076	0.039
32	Nam Long Shan Road	1	965	2.94	8.02	0.00	3.39	5.00	1.54	8.20	2.16	0.53	2.56	4.05	5.51	13.08	12.61	42.61	0.81	0.42	0.00	0.00	0.25	0.18	0.11	0.55	0.32	0.08	0.14	0.32	0.38	0.79	0.11	0.52	0.04	1.130	0.042
33	Welfare Road	1	115	3.29	10.20	0.00	8.14	10.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.69	0.46	0.00	0.00	0.60	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.338	0.015
34	Welfare Road	1	75	3.60	9.38	0.00	6.24	16.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.46	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.353	0.015
35	Shum Wan Road	1	465	2.21	11.60	0.00	3.02	5.19	0.00	0.00	4.48	0.73	3.19	5.60	11.44	27.15	26.17	35.37	0.84	0.31	0.00	0.00	0.22	0.18	0.00	0.00	0.66	0.10	0.18	0.44	0.78	1.64	0.22	0.43	0.04	1.370	0.052
36	Shum Wan Road	1	555	2.04	12.68	0.00	3.37	4.35	0.00	0.00	4.70	0.61	3.57	7.04	9.58	22.75	36.54	37.04	0.70	0.29	0.00	0.00	0.25	0.15	0.00	0.00	0.69	0.09	0.20	0.55	0.65	1.38	0.31	0.45	0.03	1.450	0.050
37	Shum Wan Pier Drive	1	110	2.45	6.40	0.00	4.25	10.97	0.00	0.00	4.74	0.77	4.50	11.84	0.00	38.26	0.00	37.38	1.77	0.35	0.00	0.00	0.31	0.39	0.00	0.00	0.70	0.11	0.25	0.92	0.00	2.32	0.00	0.46	0.09	1.233	0.059
38	Nam Long Shan Road	1	1065	2.89	8.81	0.00	3.51	4.53	1.40	7.43	1.96	0.48	2.79	3.67	4.99	11.85	19.04	38.61	0.73	0.41	0.00	0.00	0.26	0.16	0.10	0.50	0.29	0.07	0.16	0.29	0.34	0.72	0.16	0.47	0.04	1.127	0.040
39	Nam Long Shan Road	1	180	3.45	7.82	0.00	2.60	6.70	0.00	0.00	0.00	0.47	2.75	0.00	0.00	0.00	0.00	45.69	1.08	0.49	0.00	0.00	0.19	0.24	0.00	0.00	0.00	0.07	0.15	0.00	0.00	0.00	0.00	0.56	0.05	0.706	0.017
40	Nam Long Shan Road	1	230	3.64	6.12	0.00	4.07	5.25	0.00	0.00	2.27	0.37	2.15	0.00	0.00	0.00	0.00	35.76	0.85	0.51	0.00	0.00	0.30	0.19	0.00	0.00	0.33	0.05	0.12	0.00	0.00	0.00	0.00	0.44	0.04	0.605	0.020
41	Police School Road	1	1020	2.91	8.97	0.00	3.21	3.55	0.00	5.17	2.04	0.50	2.91	3.83	5.21	12.38	19.88	40.31	0.76	0.41	0.00	0.00	0.24	0.13	0.00	0.35	0.30	0.07	0.16	0.30	0.35	0.75	0.17	0.49	0.04	1.117	0.038
42#	Police School Road		NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	#VALUE!	#VALUE!

Emission Factors from EMFAC (Type 1 Local Road - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0540	0.4691	0.0000	0.9358	2.4136	2.9776	5.2782	1.0427	0.1703	0.9901	2.6039	5.3192	8.4161	8.1116	8.2238	0.3897
RSP	0.0076	0.0000	0.0000	0.0689	0.0857	0.2192	0.3565	0.1532	0.0242	0.0558	0.2028	0.3619	0.5098	0.0682	0.1002	0.0188

Emission Factors from EMFAC (Type 2 Primary Distributor - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0443	0.3929	0.5771	0.7677	1.7625	2.2781	3.9454	0.9832	0.1406	0.8194	1.8408	3.7490	5.9425	5.7269	5.9226	0.3434
RSP	0.0044	0.0000	0.0221	0.0495	0.0506	0.1241	0.1982	0.0820	0.0149	0.0388	0.1383	0.2495	0.2934	0.0466	0.0623	0.0083

Emission Factors from EMFAC (Type 3 Primary Distributor - 70kph)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0356	0.3122	0.0000	0.7206	1.3864	1.8427	3.2570	1.0654	0.1154	0.7583	1.3989	2.8571	4.5427	4.6446	4.9596	0.3390
RSP	0.0021	0.0000	0.0000	0.0277	0.0379	0.0691	0.1226	0.0577	0.0078	0.0383	0.1362	0.2487	0.2334	0.0469	0.0558	0.0070

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 12-13)

Traffic (Hour: 12-13)

Hour: 12-13				Flow Rate (veh./hr)																% of Total Flow															
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
1	Yip Hing St	1	110	45	15	0	10	10	10	15	0	0	0	0	0	0	0	0	5	40.91	13.64	0.00	9.09	9.09	9.09	13.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.55
2	Tong Bin Lane	1	130	55	20	0	10	10	10	20	0	0	0	0	0	0	0	0	5	42.31	15.38	0.00	7.69	7.69	7.69	15.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.85
3	Tong Bin Lane (near J/Wong Chuk	1	245	100	40	0	20	10	15	40	0	0	0	5	5	5	0	0	5	40.82	16.33	0.00	8.16	4.08	6.12	16.33	0.00	0.00	0.00	2.04	2.04	2.04	0.00	0.00	2.04
4	Yip Kan St	1	290	120	45	0	25	15	15	45	0	5	0	5	5	5	0	0	5	41.38	15.52	0.00	8.62	5.17	5.17	15.52	0.00	1.72	0.00	1.72	1.72	1.72	0.00	0.00	1.72
5	Wong Chuk Hang Road	2	1810	765	310	0	160	95	15	45	85	45	35	25	15	15	10	130	60	42.27	17.13	0.00	8.84	5.25	0.83	2.49	4.70	2.49	1.93	1.38	0.83	0.83	0.55	7.18	3.31
6	Wong Chuk Hang Road	2	2060	875	350	5	185	110	15	50	100	45	40	25	15	15	10	150	70	42.48	16.99	0.24	8.98	5.34	0.73	2.43	4.85	2.18	1.94	1.21	0.73	0.73	0.49	7.28	3.40
7	Wong Chuk Hang Road	2	885	265	135	0	60	35	5	10	95	20	20	20	10	10	10	170	20	29.94	15.25	0.00	6.78	3.95	0.56	1.13	10.73	2.26	2.26	2.26	1.13	1.13	1.13	19.21	2.26
8	Wong Chuk Hang Road(flyover)	3	1200	565	215	0	120	70	15	35	25	25	25	10	10	10	0	30	45	47.08	17.92	0.00	10.00	5.83	1.25	2.92	2.08	2.08	2.08	0.83	0.83	0.83	0.00	2.50	3.75
9	Wong Chuk Hang Road	2	1330	660	230	0	55	30	10	30	40	25	25	20	15	20	20	140	10	49.62	17.29	0.00	4.14	2.26	0.75	2.26	3.01	1.88	1.88	1.50	1.13	1.50	1.50	10.53	0.75
10	Wong Chuk Hang Road	2	1015	490	180	0	40	25	10	20	30	20	15	15	15	20	20	105	10	48.28	17.73	0.00	3.94	2.46	0.99	1.97	2.96	1.97	1.48	1.48	1.48	1.97	1.97	10.34	0.99
11	Wong Chuk Hang Road	2	830	410	155	0	30	20	10	20	25	15	10	15	5	10	15	80	10	49.40	18.67	0.00	3.61	2.41	1.20	2.41	3.01	1.81	1.20	1.81	0.60	1.20	1.81	9.64	1.20
12	Wong Chuk Hang Road(flyover)	3	1445	690	250	0	140	85	15	45	35	35	25	15	10	10	0	35	55	47.75	17.30	0.00	9.69	5.88	1.04	3.11	2.42	2.42	1.73	1.04	0.69	0.69	0.00	2.42	3.81
13	Wong Chuk Hang Road	2	820	80	100	0	35	20	0	0	155	15	5	10	10	10	25	345	10	9.76	12.20	0.00	4.27	2.44	0.00	0.00	18.90	1.83	0.61	1.22	1.22	1.22	3.05	42.07	1.22
14	Wong Chuk Hang Road	2	425	125	75	0	25	15	0	5	45	10	10	10	5	5	10	75	10	29.41	17.65	0.00	5.88	3.53	0.00	1.18	10.59	2.35	2.35	2.35	1.18	1.18	2.35	17.65	2.35
15	Wong Chuk Hang Road	2	1865	790	315	5	165	100	15	45	90	45	35	25	15	15	10	135	60	42.36	16.89	0.27	8.85	5.36	0.80	2.41	4.83	2.41	1.88	1.34	0.80	0.80	0.54	7.24	3.22
16	Nam Long Shan Road	1	1205	550	205	0	50	30	10	20	60	25	25	20	15	20	25	125	25	45.64	17.01	0.00	4.15	2.49	0.83	1.66	4.98	2.07	2.07	1.66	1.24	1.66	2.07	10.37	2.07
17	Heung Yip Road	1	650	335	55	0	75	45	5	15	0	35	25	15	10	10	0	0	25	51.54	8.46	0.00	11.54	6.92	0.77	2.31	0.00	5.38	3.85	2.31	1.54	1.54	0.00	0.00	3.85
18	Heung Yip Road	1	800	420	65	0	90	55	10	15	0	40	35	20	10	15	0	0	25	52.50	8.13	0.00	11.25	6.88	1.25	1.88	0.00	5.00	4.38	2.50	1.25	1.88	0.00	0.00	3.13
19	Heung Yip Road	1	1060	545	90	0	120	70	10	25	0	60	50	25	15	15	0	0	35	51.42	8.49	0.00	11.32	6.60	0.94	2.36	0.00	5.66	4.72	2.36	1.42	1.42	0.00	0.00	3.30
20	Yip Fat St	1	485	245	40	0	55	35	5	15	0	25	20	10	10	10	0	0	15	50.52	8.25	0.00	11.34	7.22	1.03	3.09	0.00	5.15	4.12	2.06	2.06	2.06	0.00	0.00	3.09
21	Heung Yip Road	1	555	300	50	0	60	35	0	10	0	25	25	10	10	10	0	0	20	54.05	9.01	0.00	10.81	6.31	0.00	1.80	0.00	4.50	4.50	1.80	1.80	1.80	0.00	0.00	3.60
22	Yip Fat St	1	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	Yip Fat St	1	355	180	30	0	45	25	0	10	0	20	15	10	5	5	0	0	10	50.70	8.45	0.00	12.68	7.04	0.00	2.82	0.00	5.63	4.23	2.82	1.41	1.41	0.00	0.00	2.82
24	Heung Yip Road	1	540	295	40	0	60	35	0	10	0	25	25	10	10	10	0	0	20	54.63	7.41	0.00	11.11	6.48	0.00	1.85	0.00	4.63	4.63	1.85	1.85	1.85	0.00	0.00	3.70
25	Heung Yip Road	1	625	345	75	0	55	35	5	15	0	25	25	10	5	5	0	5	20	55.20	12.00	0.00	8.80	5.60	0.80	2.40	0.00	4.00	4.00	1.60	0.80	0.80	0.00	0.80	3.20
26	Heung Yip Road	1	825	460	100	0	65	40	10	15	0	40	30	15	10	10	0	5	25	55.76	12.12	0.00	7.88	4.85	1.21	1.82	0.00	4.85	3.64	1.82	1.21	1.21	0.00	0.61	3.03
27	Heung Yip Road	1	225	125	20	0	25	15	0	5	0	10	10	5	0	0	0	0	10	55.56	8.89	0.00	11.11	6.67	0.00	2.22	0.00	4.44	4.44	2.22	0.00	0.00	0.00	0.00	4.44
28	Heung Yip Road	1	330	180	25	0	30	20	0	10	0	15	15	10	5	5	0	0	15	54.55	7.58	0.00	9.09	6.06	0.00	3.03	0.00	4.55	4.55	3.03	1.52	1.52	0.00	0.00	4.55
29	Heung Yip Road	1	420	215	35	0	45	30	0	10	0	20	20	10	10	10	0	0	15	51.19	8.33	0.00	10.71	7.14	0.00	2.38	0.00	4.76	4.76	2.38	2.38	2.38	0.00	0.00	3.57
30	Nam Long Shan Road	1	60	0	0	0	0	0	0	0	20	0	0	0	0	0	0	40	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.33	0.00	0.00	0.00	0.00	0.00	0.00	66.67	0.00
31	Nam Long Shan Road	1	965	525	155	0	40	25	5	10	20	30	30	15	10	15	15	50	20	54.40	16.06	0.00	4.15	2.59	0.52	1.04	2.07	3.11	3.11	1.55	1.04	1.55	1.55	5.18	2.07
32	Nam Long Shan Road	1	945	505	155	0	40	25	5	15	20	30	25	15	10	15	15	50	20	53.44	16.40	0.00	4.23	2.65	0.53	1.59	2.12	3.17	2.65	1.59	1.06	1.59	1.59	5.29	2.12
33	Welfare Road	1	105	65	20	0	10	5	0	0	0	0	0	0	0	0	0	0	5	61.90	19.05	0.00	9.52	4.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.76
34	Welfare Road	1	75	50	15	0	5	5	0	0	0	0	0	0	0	0	0	0	0	66.67	20.00	0.00	6.67	6.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	Shum Wan Road	1	450	185	105	0	15	10	0	0	20	20	15	10	10	15	15	20	10	41.11	23.33	0.00	3.33	2.22	0.00	0.00	4.44	4.44	3.33	2.22	2.22	3.33	3.33	4.44	2.22
36	Shum Wan Road	1	505	205	115	0	20	10	0	0	25	20	20	15	10	15	15	25	10	40.59	22.77	0.00	3.96	1.98	0.00	0.00	4.95	3.96	3.96	2.97	1.98	2.97	2.97	4.95	1.98
37	Shum Wan Pier Drive	1	85	40	15	0	5	0	0	0	5	5	5	5	0	0	0	5	0	47.06	17.65	0.00	5.88	0.00	0.00	0.00	5.88	5.88	5.88	5.88	0.00	0.00	0.00	5.88	0.00
38	Nam Long Shan Road	1	1000	540	165	0	45	25	5	15	20	30	30	15	10	15	15	50	20	54.00	16.50	0.00	4.50	2.50	0.50	1.50	2.00	3.00	3.00	1.50	1.00	1.50	1.50	5.00	2.00
39	Nam Long Shan Road	1	165	105	25	0	5	5	0	0	0	5	5	0	0	0	0	10	5	63.64	15.15	0.00	3.03	3.03	0.00	0.00	0.00	3.03	3.03	0.00	0.00	0.00	0.00	6.06	3.03
40	Nam Long Shan Road	1	210	135	30	0	10	5	0	0	5	5	5	0	0	0	0	10	5	64.29	14.29	0.00	4.76	2.38	0.00	0.00	2.38	2.38	2.38	0.00	0.00	0.00	0.00	4.76	2.38
41	Police School Road	1	945	515	160	0	40	20	0	10	20	30	25	15	10	15	15	50	20	54.50	16.93	0.00	4.23	2.12	0.00	1.06	2.12	3.17	2.65	1.59	1.06	1.59	1.59	5.29	2.12
42#	Police School Road		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 12-13)

Emission Factor Calculations (Hour: 00-01)

Hour: 12-13				% of Total Flow x Emission Factor (NOx)																	% of Total Flow x Emission Factor (RSP)																		Composite Emission Factor (g/veh·km)	
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	NOx	RSP
1	Yip Hing St	1	110	2.21	6.39	0.00	8.50	21.97	27.03	71.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.77	0.31	0.00	0.00	0.63	0.78	1.99	4.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	1.396	0.086
2	Tong Bin Lane	1	130	2.28	7.20	0.00	7.19	18.59	22.87	80.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	0.32	0.00	0.00	0.53	0.66	1.69	5.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	1.405	0.087
3	Tong Bin Lane (near J/Wong Chuk	1	245	2.20	7.65	0.00	7.63	9.87	18.21	85.83	0.00	0.00	0.00	5.31	10.84	17.21	0.00	0.00	0.79	0.31	0.00	0.00	0.56	0.35	1.34	5.79	0.00	0.00	0.00	0.41	0.74	1.05	0.00	0.00	0.04	1.655	0.106
4	Yip Kan St	1	290	2.23	7.27	0.00	8.06	12.50	15.38	81.57	0.00	0.29	0.00	4.48	9.16	14.54	0.00	0.00	0.67	0.32	0.00	0.00	0.59	0.44	1.13	5.51	0.00	0.04	0.00	0.35	0.62	0.88	0.00	0.00	0.03	1.562	0.099
5	Wong Chuk Hang Road	2	1810	1.87	6.72	0.00	6.77	9.23	1.89	9.82	4.61	0.35	1.58	2.54	3.10	4.92	3.15	42.48	1.13	0.19	0.00	0.00	0.44	0.27	0.10	0.50	0.38	0.04	0.08	0.19	0.21	0.24	0.03	0.45	0.03	1.002	0.031
6	Wong Chuk Hang Road	2	2060	1.88	6.66	0.14	6.88	9.39	1.66	9.59	4.76	0.31	1.59	2.23	2.73	4.32	2.76	43.06	1.16	0.19	0.00	0.01	0.44	0.27	0.09	0.48	0.40	0.03	0.08	0.17	0.18	0.21	0.02	0.45	0.03	0.991	0.031
7	Wong Chuk Hang Road	2	885	1.33	5.98	0.00	5.19	6.96	1.29	4.46	10.53	0.32	1.85	4.15	4.23	6.71	6.43	113.60	0.77	0.13	0.00	0.00	0.33	0.20	0.07	0.23	0.88	0.03	0.09	0.31	0.28	0.33	0.05	1.20	0.02	1.738	0.042
8	Wong Chuk Hang Road(flyover)	3	1200	1.67	5.59	0.00	7.20	8.08	2.30	9.49	2.21	0.24	1.58	1.16	2.38	3.78	0.00	12.39	1.27	0.10	0.00	0.00	0.28	0.22	0.09	0.36	0.12	0.02	0.08	0.11	0.21	0.19	0.00	0.14	0.03	0.593	0.019
9	Wong Chuk Hang Road	2	1330	2.20	6.78	0.00	3.17	3.97	1.71	8.91	2.95	0.26	1.54	2.76	4.22	8.93	8.56	62.25	0.26	0.22	0.00	0.00	0.20	0.11	0.09	0.45	0.25	0.03	0.07	0.21	0.28	0.44	0.07	0.66	0.01	1.185	0.031
10	Wong Chuk Hang Road	2	1015	2.14	6.96	0.00	3.02	4.33	2.24	7.78	2.90	0.28	1.21	2.72	5.54	11.70	11.22	61.18	0.34	0.21	0.00	0.00	0.19	0.12	0.12	0.39	0.24	0.03	0.06	0.20	0.37	0.58	0.09	0.64	0.01	1.235	0.033
11	Wong Chuk Hang Road	2	830	2.19	7.32	0.00	2.77	4.24	2.74	9.52	2.95	0.25	0.98	3.32	2.26	7.15	10.29	57.00	0.41	0.22	0.00	0.00	0.18	0.12	0.15	0.48	0.25	0.03	0.05	0.25	0.15	0.35	0.08	0.60	0.01	1.134	0.029
12	Wong Chuk Hang Road(flyover)	3	1445	1.70	5.39	0.00	6.98	8.15	1.91	10.13	2.57	0.28	1.31	1.45	1.98	3.14	0.00	12.00	1.29	0.10	0.00	0.00	0.27	0.22	0.07	0.38	0.14	0.02	0.07	0.14	0.17	0.16	0.00	0.14	0.03	0.583	0.019
13	Wong Chuk Hang Road	2	820	0.43	4.78	0.00	3.27	4.29	0.00	0.00	18.54	0.26	0.50	2.24	4.57	7.24	17.36	248.82	0.42	0.04	0.00	0.00	0.21	0.12	0.00	0.00	1.55	0.03	0.02	0.17	0.30	0.36	0.14	2.62	0.01	3.127	0.056
14	Wong Chuk Hang Road	2	425	1.30	6.92	0.00	4.51	6.21	0.00	4.65	10.39	0.33	1.92	4.32	4.41	6.98	13.39	104.37	0.81	0.13	0.00	0.00	0.29	0.18	0.00	0.23	0.87	0.03	0.09	0.33	0.29	0.35	0.11	1.10	0.02	1.705	0.040
15	Wong Chuk Hang Road	2	1865	1.88	6.62	0.15	6.78	9.43	1.83	9.53	4.73	0.34	1.53	2.46	3.01	4.77	3.05	42.81	1.10	0.19	0.00	0.01	0.44	0.27	0.10	0.48	0.40	0.04	0.07	0.19	0.20	0.24	0.02	0.45	0.03	1.000	0.031
16	Nam Long Shan Road	1	1205	2.46	7.97	0.00	3.88	6.02	2.47	8.73	5.18	0.35	2.05	4.32	6.61	14.00	16.81	85.23	0.81	0.35	0.00	0.00	0.29	0.21	0.18	0.59	0.76	0.05	0.12	0.34	0.45	0.85	0.14	1.04	0.04	1.669	0.054
17	Heung Yip Road	1	650	2.78	3.96	0.00	10.79	16.73	2.29	12.13	0.00	0.91	3.80	6.00	8.17	12.98	0.00	0.00	1.50	0.39	0.00	0.00	0.80	0.60	0.17	0.82	0.00	0.13	0.21	0.47	0.56	0.79	0.00	0.00	0.07	0.820	0.050
18	Heung Yip Road	1	800	2.83	3.81	0.00	10.52	16.62	3.72	9.86	0.00	0.85	4.32	6.50	6.64	15.81	0.00	0.00	1.22	0.40	0.00	0.00	0.78	0.59	0.27	0.67	0.00	0.12	0.24	0.51	0.45	0.96	0.00	0.00	0.06	0.827	0.051
19	Heung Yip Road	1	1060	2.77	3.98	0.00	10.59	15.96	2.81	12.40	0.00	0.96	4.66	6.13	7.52	11.94	0.00	0.00	1.29	0.39	0.00	0.00	0.78	0.57	0.21	0.84	0.00	0.14	0.26	0.48	0.51	0.72	0.00	0.00	0.06	0.810	0.050
20	Yip Fat St	1	485	2.72	3.86	0.00	10.60	17.44	3.07	16.26	0.00	0.87	4.08	5.36	10.96	17.39	0.00	0.00	1.20	0.39	0.00	0.00	0.78	0.62	0.23	1.10	0.00	0.12	0.23	0.42	0.75	1.06	0.00	0.00	0.06	0.938	0.057
21	Heung Yip Road	1	555	2.91	4.22	0.00	10.11	15.24	0.00	9.47	0.00	0.76	4.45	4.69	9.57	15.20	0.00	0.00	1.40	0.41	0.00	0.00	0.75	0.54	0.00	0.64	0.00	0.11	0.25	0.37	0.65	0.92	0.00	0.00	0.07	0.780	0.047
22	Yip Fat St	1	5	5.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.054	0.008
23	Yip Fat St	1	355	2.73	3.96	0.00	11.85	17.02	0.00	14.81	0.00	0.95	4.18	7.33	7.48	11.88	0.00	0.00	1.10	0.39	0.00	0.00	0.87	0.61	0.00	1.00	0.00	0.14	0.24	0.57	0.51	0.72	0.00	0.00	0.05	0.833	0.051
24	Heung Yip Road	1	540	2.95	3.47	0.00	10.39	15.67	0.00	9.73	0.00	0.78	4.58	4.82	9.84	15.62	0.00	0.00	1.44	0.42	0.00	0.00	0.77	0.56	0.00	0.66	0.00	0.11	0.26	0.38	0.67	0.95	0.00	0.00	0.07	0.793	0.048
25	Heung Yip Road	1	625	2.98	5.62	0.00	8.23	13.53	2.38	12.62	0.00	0.68	3.95	4.16	4.25	6.75	0.00	6.57	1.25	0.42	0.00	0.00	0.61	0.48	0.18	0.85	0.00	0.10	0.22	0.32	0.29	0.41	0.00	0.08	0.06	0.730	0.040
26	Heung Yip Road	1	825	3.01	5.68	0.00	7.37	11.72	3.60	9.56	0.00	0.82	3.59	4.73	6.44	10.22	0.00	4.98	1.18	0.43	0.00	0.00	0.54	0.42	0.27	0.65	0.00	0.12	0.20	0.37	0.44	0.62	0.00	0.06	0.06	0.729	0.042
27	Heung Yip Road	1	225	3.00	4.16	0.00	10.39	16.11	0.00	11.68	0.00	0.75	4.39	5.78	0.00	0.00	0.00	0.00	1.73	0.42	0.00	0.00	0.77	0.57	0.00	0.79	0.00	0.11	0.25	0.45	0.00	0.00	0.00	0.00	0.08	0.580	0.034
28	Heung Yip Road	1	330	2.94	3.55	0.00	8.50	14.65	0.00	15.93	0.00	0.77	4.49	7.88	8.05	12.78	0.00	0.00	1.77	0.42	0.00	0.00	0.63	0.52	0.00	1.08	0.00	0.11	0.25	0.61	0.55	0.78	0.00	0.00	0.09	0.813	0.050
29	Heung Yip Road	1	420	2.76	3.90	0.00	10.02	17.26	0.00	12.52	0.00	0.81	4.71	6.19	12.65	20.08	0.00	0.00	1.39	0.39	0.00	0.00	0.74	0.61	0.00	0.84	0.00	0.12	0.27	0.48	0.86	1.22	0.00	0.00	0.07	0.923	0.056
30	Nam Long Shan Road	1	60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.70	0.00	0.00	0.00	0.00	0.00	0.00	547.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.11	0.00	0.00	0.00	0.00	0.00	0.00	6.68	0.00	5.825	0.118
31	Nam Long Shan Road	1	965	2.93	7.52	0.00	3.88	6.26	1.54	5.45	2.16	0.53	3.07	4.04	5.51	13.11	12.60	42.57	0.81	0.42	0.00	0.00	0.29	0.22	0.11	0.37	0.32	0.08	0.17	0.32	0.38	0.80	0.11	0.52	0.04	1.120	0.041
32	Nam Long Shan Road	1	945	2.88	7.68	0.00	3.96	6.39	1.57	8.34	2.20	0.54	2.61	4.13	5.62	13.39	12.86	43.47	0.82	0.41	0.00	0.00	0.29	0.23	0.12	0.56	0.32	0.08	0.15	0.32	0.38	0.81	0.11	0.53	0.04	1.165	0.044
33	Welfare Road	1	105	3.34	8.92	0.00	8.91	11.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.85	0.47	0.00	0.00	0.66	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.345	0.016
34	Welfare Road	1	75	3.59	9.37	0.00	6.23	16.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.46	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.353	0.015
35	Shum Wan Road	1	450	2.22	10.93	0.00	3.12	5.37	0.00	0.00	4.63	0.75	3.29	5.78	11.81	28.12	27.01	36.52	0.87	0.31	0.00	0.00	0.23	0.19	0.00	0.00	0.68	0.11	0.19	0.45	0.80	1.71	0.23	0.45	0.04	1.404	0.054
36	Shum Wan Road	1	505	2.19	10.66	0.00	3.70	4.79	0.00	0.00	5.15	0.67	3.91	7.73	10.52	25.05	24.07	40.68	0.77	0.31	0.00	0.00	0.27	0.17	0.00	0.00	0.76	0.10	0.22	0.60	0.72	1.52	0.20	0.50	0.04	1.399	0.054
37	Shum Wan Pier Drive	1	85	2.54	8.26	0.00	5.50	0.00	0.00	0.00	6.12	1.00	5.81	15.30	0.00	0.00	0.00	48.33	0.00	0.36	0.00	0.00	0.41	0.00	0.00	0.00	0.90	0.14	0.33	1.19	0.00	0.00	0.00	0.59	0.00	0.929	0.039
38	Nam Long Shan Road	1	1000	2.91	7.73	0.00	4.21	6.04	1.49	7.89	2.08	0.51	2.97	3.90	5.31	12.65	12.16	41.08	0.78	0.41	0.00	0.00	0.31	0.22	0.11	0.53	0.31	0.07	0.17	0.30	0.36	0.77	0.10	0.50	0.04	1.117	0.042
39	Nam Long Shan Road	1	165	3.43	7.10	0.00	2.83	7.32	0.00	0.00	0.00	0.51	3.00	0.00	0.00	0.00	0.00	49.80	1.18	0.49	0.00	0.00	0.21	0.26	0.00	0.00	0.00	0.07	0.17	0.00	0.00	0.00	0.00	0.61	0.06	0.752	0.019
40	Nam Long Shan Road	1	210	3.47	6.69	0.00	4.45	5.75	0.00	0.00	2.48	0.40	2.35	0.00	0.00	0.00	0.00	39.13	0.93	0.49	0.00	0.00	0.33	0.20	0.00	0.00	0.36	0.06	0.13	0.00	0.00	0.00	0.00	0.48	0.04	0.657	0.021
41	Police School Road	1	945	2.94	7.93	0.00	3.96	5.12	0.00	5.56	2.20	0.54	2.61	4.13	5.62	13.39	12.86	43.47	0.82	0.42	0.00	0.00	0.29	0.18	0.00	0.38	0.32	0.08	0.15	0.32	0.38	0.81	0.11	0.53	0.04	1.112	0.040
42#	Police School Road		NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	#VALUE!	#VALUE!

Emission Factors from EMFAC (Type 1 Local Road - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0539	0.4683	0.0000	0.9352	2.4169	2.9735	5.2568	1.0410	0.1693	0.9884	2.6012	5.3134	8.4346	8.1039	8.2164	0.3893
RSP	0.0076	0.0000	0.0000	0.0690	0.0860	0.2192	0.3548	0.1532	0.0242	0.0558	0.2028	0.3619	0.5121	0.0682	0.1002	0.0188

Emission Factors from EMFAC (Type 2 Primary Distributor - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0443	0.3922	0.5765	0.7660	1.7588	2.2759	3.9497	0.9809	0.1401	0.8175	1.8374	3.7454	5.9367	5.6927	5.9141	0.3423
RSP	0.0044	0.0000	0.0221	0.0494	0.0505	0.1241	0.1994	0.0819	0.0149	0.0388	0.1382	0.2495	0.2934	0.0463	0.0623	0.0083

Emission Factors from EMFAC (Type 3 Primary Distributor - 70kph)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0355	0.3118	0.0000	0.7199	1.3851	1.8409	3.2539	1.0628	0.1150	0.7568	1.3976	2.8543	4.5383	0.0000	4.9548	0.3379
RSP	0.0021	0.0000	0.0000	0.0277	0.0379	0.0691	0.1226	0.0577	0.0078	0.0383	0.1362	0.2487	0.2334	0.0000	0.0558	0.0070

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 13-14)

Traffic (Hour: 13-14)

Hour: 13-14				Flow Rate (veh./hr)																% of Total Flow															
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
1	Yip Hing St	1	110	45	15	0	10	10	10	15	0	0	0	0	0	0	0	0	5	40.91	13.64	0.00	9.09	9.09	9.09	13.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.55
2	Tong Bin Lane	1	135	60	20	0	10	10	10	20	0	0	0	0	0	0	0	0	5	44.44	14.81	0.00	7.41	7.41	7.41	14.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.70
3	Tong Bin Lane (near J/Wong Chuk	1	250	105	40	0	20	10	15	40	0	0	0	5	5	5	0	0	5	42.00	16.00	0.00	8.00	4.00	6.00	16.00	0.00	0.00	0.00	2.00	2.00	2.00	0.00	0.00	2.00
4	Yip Kan St	1	290	120	45	0	25	15	15	45	0	5	0	5	5	5	0	0	5	41.38	15.52	0.00	8.62	5.17	5.17	15.52	0.00	1.72	0.00	1.72	1.72	1.72	0.00	0.00	1.72
5	Wong Chuk Hang Road	2	1775	745	295	0	160	95	15	45	85	45	35	25	15	15	10	130	60	41.97	16.62	0.00	9.01	5.35	0.85	2.54	4.79	2.54	1.97	1.41	0.85	0.85	0.56	7.32	3.38
6	Wong Chuk Hang Road	2	2035	855	335	5	195	110	15	50	100	45	40	25	15	15	10	150	70	42.01	16.46	0.25	9.58	5.41	0.74	2.46	4.91	2.21	1.97	1.23	0.74	0.74	0.49	7.37	3.44
7	Wong Chuk Hang Road	2	865	245	135	0	60	35	5	10	95	20	20	20	10	10	10	170	20	28.32	15.61	0.00	6.94	4.05	0.58	1.16	10.98	2.31	2.31	2.31	1.16	1.16	1.16	19.65	2.31
8	Wong Chuk Hang Road(flyover)	3	1175	555	200	0	120	70	15	35	25	25	25	10	10	10	0	30	45	47.23	17.02	0.00	10.21	5.96	1.28	2.98	2.13	2.13	2.13	0.85	0.85	0.85	0.00	2.55	3.83
9	Wong Chuk Hang Road	2	1295	635	230	0	55	30	10	30	40	25	25	20	15	20	20	130	10	49.03	17.76	0.00	4.25	2.32	0.77	2.32	3.09	1.93	1.93	1.54	1.16	1.54	1.54	10.04	0.77
10	Wong Chuk Hang Road	2	990	475	180	0	40	25	10	20	30	20	15	15	15	20	20	95	10	47.98	18.18	0.00	4.04	2.53	1.01	2.02	3.03	2.02	1.52	1.52	1.52	2.02	2.02	9.60	1.01
11	Wong Chuk Hang Road	2	815	395	155	0	30	20	10	20	25	15	10	15	5	10	15	80	10	48.47	19.02	0.00	3.68	2.45	1.23	2.45	3.07	1.84	1.23	1.84	0.61	1.23	1.84	9.82	1.23
12	Wong Chuk Hang Road(flyover)	3	1435	680	240	0	150	85	15	45	35	35	25	15	10	10	0	35	55	47.39	16.72	0.00	10.45	5.92	1.05	3.14	2.44	2.44	1.74	1.05	0.70	0.70	0.00	2.44	3.83
13	Wong Chuk Hang Road	2	820	90	100	0	35	20	0	0	145	15	5	10	10	10	25	345	10	10.98	12.20	0.00	4.27	2.44	0.00	0.00	17.68	1.83	0.61	1.22	1.22	1.22	3.05	42.07	1.22
14	Wong Chuk Hang Road	2	420	115	75	0	25	15	0	5	45	10	10	10	5	5	15	75	10	27.38	17.86	0.00	5.95	3.57	0.00	1.19	10.71	2.38	2.38	2.38	1.19	1.19	3.57	17.86	2.38
15	Wong Chuk Hang Road	2	1850	770	305	5	175	100	15	45	90	45	35	25	15	15	15	135	60	41.62	16.49	0.27	9.46	5.41	0.81	2.43	4.86	2.43	1.89	1.35	0.81	0.81	0.81	7.30	3.24
16	Nam Long Shan Road	1	1200	545	200	0	50	30	10	20	60	25	25	20	15	25	25	125	25	45.42	16.67	0.00	4.17	2.50	0.83	1.67	5.00	2.08	2.08	1.67	1.25	2.08	2.08	10.42	2.08
17	Heung Yip Road	1	640	315	55	0	80	50	5	15	0	35	25	15	10	10	0	0	25	49.22	8.59	0.00	12.50	7.81	0.78	2.34	0.00	5.47	3.91	2.34	1.56	1.56	0.00	0.00	3.91
18	Heung Yip Road	1	790	395	70	0	95	60	10	15	0	40	35	20	10	15	0	0	25	50.00	8.86	0.00	12.03	7.59	1.27	1.90	0.00	5.06	4.43	2.53	1.27	1.90	0.00	0.00	3.16
19	Heung Yip Road	1	1035	515	95	0	125	75	10	25	0	55	45	25	15	15	0	0	35	49.76	9.18	0.00	12.08	7.25	0.97	2.42	0.00	5.31	4.35	2.42	1.45	1.45	0.00	0.00	3.38
20	Yip Fat St	1	485	240	40	0	60	35	5	15	0	25	20	10	10	10	0	0	15	49.48	8.25	0.00	12.37	7.22	1.03	3.09	0.00	5.15	4.12	2.06	2.06	2.06	0.00	0.00	3.09
21	Heung Yip Road	1	540	280	50	0	65	35	0	10	0	25	25	10	10	10	0	0	20	51.85	9.26	0.00	12.04	6.48	0.00	1.85	0.00	4.63	4.63	1.85	1.85	1.85	0.00	0.00	3.70
22	Yip Fat St	1	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	Yip Fat St	1	355	175	30	0	50	25	0	10	0	20	15	10	5	5	0	0	10	49.30	8.45	0.00	14.08	7.04	0.00	2.82	0.00	5.63	4.23	2.82	1.41	1.41	0.00	0.00	2.82
24	Heung Yip Road	1	520	270	40	0	65	35	0	10	0	25	25	10	10	10	0	0	20	51.92	7.69	0.00	12.50	6.73	0.00	1.92	0.00	4.81	4.81	1.92	1.92	1.92	0.00	0.00	3.85
25	Heung Yip Road	1	620	330	80	0	60	35	5	15	0	25	25	10	5	5	0	5	20	53.23	12.90	0.00	9.68	5.65	0.81	2.42	0.00	4.03	4.03	1.61	0.81	0.81	0.00	0.81	3.23
26	Heung Yip Road	1	795	425	100	0	70	40	10	15	0	40	30	15	10	10	0	5	25	53.46	12.58	0.00	8.81	5.03	1.26	1.89	0.00	5.03	3.77	1.89	1.26	1.26	0.00	0.63	3.14
27	Heung Yip Road	1	215	115	20	0	25	15	0	5	0	10	10	5	0	0	0	0	10	53.49	9.30	0.00	11.63	6.98	0.00	2.33	0.00	4.65	4.65	2.33	0.00	0.00	0.00	0.00	4.65
28	Heung Yip Road	1	310	160	25	0	30	20	0	10	0	15	15	10	5	5	0	0	15	51.61	8.06	0.00	9.68	6.45	0.00	3.23	0.00	4.84	4.84	3.23	1.61	1.61	0.00	0.00	4.84
29	Heung Yip Road	1	415	205	35	0	50	30	0	10	0	20	20	10	10	10	0	0	15	49.40	8.43	0.00	12.05	7.23	0.00	2.41	0.00	4.82	4.82	2.41	2.41	2.41	0.00	0.00	3.61
30	Nam Long Shan Road	1	60	0	0	0	0	0	0	0	20	0	0	0	0	0	0	40	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.33	0.00	0.00	0.00	0.00	0.00	0.00	66.67	0.00
31	Nam Long Shan Road	1	950	495	160	0	45	25	5	10	20	30	30	15	10	20	15	50	20	52.11	16.84	0.00	4.74	2.63	0.53	1.05	2.11	3.16	3.16	1.58	1.05	2.11	1.58	5.26	2.11
32	Nam Long Shan Road	1	940	485	160	0	45	25	5	15	20	30	25	15	10	20	15	50	20	51.60	17.02	0.00	4.79	2.66	0.53	1.60	2.13	3.19	2.66	1.60	1.06	2.13	1.60	5.32	2.13
33	Welfare Road	1	100	60	20	0	10	5	0	0	0	0	0	0	0	0	0	0	5	60.00	20.00	0.00	10.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00
34	Welfare Road	1	75	50	15	0	5	5	0	0	0	0	0	0	0	0	0	0	0	66.67	20.00	0.00	6.67	6.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	Shum Wan Road	1	450	180	105	0	15	10	0	0	20	20	15	10	10	20	15	20	10	40.00	23.33	0.00	3.33	2.22	0.00	0.00	4.44	4.44	3.33	2.22	2.22	4.44	3.33	4.44	2.22
36	Shum Wan Road	1	455	190	100	0	15	10	0	0	20	20	15	10	10	20	15	20	10	41.76	21.98	0.00	3.30	2.20	0.00	0.00	4.40	4.40	3.30	2.20	2.20	4.40	3.30	4.40	2.20
37	Shum Wan Pier Drive	1	45	20	10	0	0	0	0	0	5	5	0	0	0	0	0	5	0	44.44	22.22	0.00	0.00	0.00	0.00	0.00	11.11	11.11	0.00	0.00	0.00	0.00	0.00	11.11	0.00
38	Nam Long Shan Road	1	975	510	160	0	50	25	5	15	20	30	30	15	10	20	15	50	20	52.31	16.41	0.00	5.13	2.56	0.51	1.54	2.05	3.08	3.08	1.54	1.03	2.05	1.54	5.13	2.05
39	Nam Long Shan Road	1	155	95	25	0	5	5	0	0	0	5	5	0	0	0	0	10	5	61.29	16.13	0.00	3.23	3.23	0.00	0.00	0.00	3.23	3.23	0.00	0.00	0.00	0.00	6.45	3.23
40	Nam Long Shan Road	1	190	120	25	0	10	5	0	0	5	5	5	0	0	0	0	10	5	63.16	13.16	0.00	5.26	2.63	0.00	0.00	2.63	2.63	2.63	0.00	0.00	0.00	0.00	5.26	2.63
41	Police School Road	1	920	485	155	0	45	20	0	10	20	30	25	15	10	20	15	50	20	52.72	16.85	0.00	4.89	2.17	0.00	1.09	2.17	3.26	2.72	1.63	1.09	2.17	1.63	5.43	2.17
42#	Police School Road		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 13-14)

Emission Factor Calculations (Hour: 00-01)

Hour: 13-14				% of Total Flow x Emission Factor (NOx)																	% of Total Flow x Emission Factor (RSP)																		Composite Emission Factor (g/veh·km)	
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	NOx	RSP
1	Yip Hing St	1	110	2.20	6.38	0.00	8.50	21.92	27.03	71.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.77	0.31	0.00	0.00	0.63	0.78	1.99	4.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	1.393	0.086
2	Tong Bin Lane	1	135	2.39	6.93	0.00	6.92	17.86	22.03	77.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.44	0.34	0.00	0.00	0.51	0.64	1.62	5.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	1.352	0.084
3	Tong Bin Lane (near J/Wong Chuk	1	250	2.26	7.49	0.00	7.48	9.65	17.84	83.85	0.00	0.00	0.00	5.20	10.63	16.87	0.00	0.00	0.78	0.32	0.00	0.00	0.55	0.34	1.32	5.64	0.00	0.00	0.00	0.41	0.72	1.02	0.00	0.00	0.04	1.620	0.104
4	Yip Kan St	1	290	2.23	7.26	0.00	8.06	12.47	15.38	81.32	0.00	0.29	0.00	4.48	9.16	14.54	0.00	0.00	0.67	0.32	0.00	0.00	0.59	0.44	1.13	5.47	0.00	0.04	0.00	0.35	0.62	0.88	0.00	0.00	0.03	1.559	0.099
5	Wong Chuk Hang Road	2	1775	1.81	6.39	0.00	6.73	9.15	1.86	9.73	4.70	0.35	1.59	2.54	3.10	4.92	3.19	42.98	1.16	0.17	0.00	0.00	0.42	0.25	0.09	0.46	0.38	0.04	0.07	0.19	0.21	0.24	0.03	0.45	0.03	1.002	0.030
6	Wong Chuk Hang Road	2	2035	1.81	6.33	0.13	7.15	9.25	1.62	9.43	4.82	0.30	1.59	2.22	2.71	4.29	2.78	43.26	1.18	0.17	0.00	0.00	0.45	0.26	0.08	0.45	0.39	0.03	0.07	0.17	0.18	0.21	0.02	0.45	0.03	0.989	0.030
7	Wong Chuk Hang Road	2	865	1.22	6.00	0.00	5.18	6.92	1.27	4.44	10.77	0.32	1.87	4.17	4.24	6.74	6.54	115.33	0.79	0.11	0.00	0.00	0.33	0.19	0.06	0.21	0.87	0.03	0.09	0.31	0.28	0.33	0.05	1.20	0.02	1.758	0.041
8	Wong Chuk Hang Road(flyover)	3	1175	1.68	5.30	0.00	7.35	8.25	2.35	9.69	2.26	0.24	1.61	1.19	2.43	3.86	0.00	12.65	1.29	0.10	0.00	0.00	0.28	0.23	0.09	0.37	0.12	0.02	0.08	0.12	0.21	0.20	0.00	0.14	0.03	0.602	0.020
9	Wong Chuk Hang Road	2	1295	2.11	6.83	0.00	3.17	3.96	1.70	8.89	3.03	0.27	1.56	2.79	4.25	9.00	8.74	58.91	0.26	0.20	0.00	0.00	0.20	0.11	0.09	0.42	0.25	0.03	0.07	0.21	0.28	0.44	0.07	0.62	0.01	1.155	0.030
10	Wong Chuk Hang Road	2	990	2.07	6.99	0.00	3.02	4.32	2.22	7.76	2.97	0.28	1.22	2.74	5.56	11.77	11.44	56.31	0.35	0.19	0.00	0.00	0.19	0.12	0.11	0.37	0.24	0.03	0.06	0.20	0.37	0.57	0.09	0.59	0.01	1.190	0.031
11	Wong Chuk Hang Road	2	815	2.09	7.31	0.00	2.75	4.20	2.70	9.42	3.01	0.25	0.99	3.32	2.25	7.15	10.42	57.60	0.42	0.20	0.00	0.00	0.17	0.12	0.14	0.45	0.24	0.03	0.05	0.25	0.15	0.35	0.08	0.60	0.01	1.139	0.028
12	Wong Chuk Hang Road(flyover)	3	1435	1.68	5.21	0.00	7.53	8.20	1.92	10.20	2.59	0.28	1.32	1.46	1.99	3.16	0.00	12.09	1.29	0.10	0.00	0.00	0.29	0.22	0.07	0.38	0.14	0.02	0.07	0.14	0.17	0.16	0.00	0.14	0.03	0.589	0.019
13	Wong Chuk Hang Road	2	820	0.47	4.69	0.00	3.19	4.17	0.00	0.00	17.35	0.25	0.49	2.20	4.48	7.11	17.26	246.90	0.42	0.04	0.00	0.00	0.20	0.12	0.00	0.00	1.41	0.03	0.02	0.16	0.30	0.35	0.14	2.58	0.01	3.090	0.054
14	Wong Chuk Hang Road	2	420	1.18	6.87	0.00	4.44	6.11	0.00	4.57	10.51	0.33	1.92	4.30	4.37	6.94	20.22	104.79	0.81	0.11	0.00	0.00	0.28	0.17	0.00	0.22	0.85	0.03	0.09	0.32	0.29	0.34	0.16	1.09	0.02	1.774	0.040
15	Wong Chuk Hang Road	2	1850	1.79	6.34	0.15	7.06	9.25	1.79	9.34	4.77	0.33	1.53	2.44	2.98	4.72	4.59	42.82	1.11	0.17	0.00	0.01	0.44	0.26	0.09	0.45	0.39	0.03	0.07	0.18	0.20	0.23	0.04	0.45	0.03	1.010	0.030
16	Nam Long Shan Road	1	1200	2.45	7.80	0.00	3.90	6.03	2.48	8.73	5.20	0.35	2.06	4.33	6.64	17.57	16.88	85.53	0.81	0.35	0.00	0.00	0.29	0.21	0.18	0.59	0.76	0.05	0.12	0.34	0.45	1.07	0.14	1.04	0.04	1.708	0.056
17	Heung Yip Road	1	640	2.65	4.02	0.00	11.69	18.84	2.32	12.28	0.00	0.92	3.86	6.09	8.31	13.18	0.00	0.00	1.52	0.37	0.00	0.00	0.86	0.67	0.17	0.83	0.00	0.13	0.22	0.48	0.57	0.80	0.00	0.00	0.07	0.857	0.052
18	Heung Yip Road	1	790	2.69	4.15	0.00	11.24	18.31	3.76	9.95	0.00	0.86	4.38	6.58	6.73	16.02	0.00	0.00	1.23	0.38	0.00	0.00	0.83	0.65	0.28	0.67	0.00	0.12	0.25	0.51	0.46	0.97	0.00	0.00	0.06	0.859	0.052
19	Heung Yip Road	1	1035	2.68	4.30	0.00	11.29	17.47	2.87	12.66	0.00	0.90	4.30	6.28	7.70	12.22	0.00	0.00	1.31	0.38	0.00	0.00	0.83	0.62	0.21	0.85	0.00	0.13	0.24	0.49	0.52	0.74	0.00	0.00	0.06	0.840	0.051
20	Yip Fat St	1	485	2.66	3.86	0.00	11.57	17.40	3.07	16.21	0.00	0.87	4.07	5.36	10.96	17.39	0.00	0.00	1.20	0.38	0.00	0.00	0.85	0.62	0.23	1.09	0.00	0.12	0.23	0.42	0.75	1.06	0.00	0.00	0.06	0.946	0.058
21	Heung Yip Road	1	540	2.79	4.33	0.00	11.25	15.63	0.00	9.70	0.00	0.78	4.57	4.81	9.84	15.62	0.00	0.00	1.44	0.39	0.00	0.00	0.83	0.56	0.00	0.65	0.00	0.11	0.26	0.38	0.67	0.95	0.00	0.00	0.07	0.808	0.049
22	Yip Fat St	1	5	5.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.054	0.008
23	Yip Fat St	1	355	2.65	3.95	0.00	13.17	16.98	0.00	14.76	0.00	0.95	4.18	7.32	7.49	11.88	0.00	0.00	1.09	0.38	0.00	0.00	0.97	0.60	0.00	0.99	0.00	0.14	0.24	0.57	0.51	0.72	0.00	0.00	0.05	0.844	0.052
24	Heung Yip Road	1	520	2.80	3.60	0.00	11.69	16.23	0.00	10.08	0.00	0.81	4.75	5.00	10.22	16.22	0.00	0.00	1.49	0.40	0.00	0.00	0.86	0.58	0.00	0.68	0.00	0.12	0.27	0.39	0.70	0.98	0.00	0.00	0.07	0.829	0.050
25	Heung Yip Road	1	620	2.87	6.04	0.00	9.05	13.61	2.40	12.68	0.00	0.68	3.98	4.19	4.29	6.80	0.00	6.62	1.25	0.41	0.00	0.00	0.67	0.48	0.18	0.85	0.00	0.10	0.22	0.33	0.29	0.41	0.00	0.08	0.06	0.745	0.041
26	Heung Yip Road	1	795	2.88	5.89	0.00	8.23	12.13	3.74	9.89	0.00	0.85	3.73	4.91	6.69	10.61	0.00	5.16	1.22	0.41	0.00	0.00	0.61	0.43	0.28	0.67	0.00	0.12	0.21	0.38	0.46	0.64	0.00	0.06	0.06	0.759	0.043
27	Heung Yip Road	1	215	2.88	4.35	0.00	10.87	16.82	0.00	12.19	0.00	0.79	4.60	6.05	0.00	0.00	0.00	0.00	1.81	0.41	0.00	0.00	0.80	0.60	0.00	0.82	0.00	0.11	0.26	0.47	0.00	0.00	0.00	0.00	0.09	0.604	0.036
28	Heung Yip Road	1	310	2.78	3.77	0.00	9.05	15.56	0.00	16.91	0.00	0.82	4.78	8.39	8.57	13.60	0.00	0.00	1.88	0.39	0.00	0.00	0.67	0.55	0.00	1.14	0.00	0.12	0.27	0.65	0.58	0.83	0.00	0.00	0.09	0.861	0.053
29	Heung Yip Road	1	415	2.66	3.95	0.00	11.26	17.43	0.00	12.63	0.00	0.81	4.76	6.26	12.81	20.32	0.00	0.00	1.40	0.38	0.00	0.00	0.83	0.62	0.00	0.85	0.00	0.12	0.27	0.49	0.87	1.23	0.00	0.00	0.07	0.943	0.057
30	Nam Long Shan Road	1	60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.67	0.00	0.00	0.00	0.00	0.00	0.00	547.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.10	0.00	0.00	0.00	0.00	0.00	0.00	6.68	0.00	5.820	0.118
31	Nam Long Shan Road	1	950	2.81	7.88	0.00	4.43	6.35	1.57	5.52	2.19	0.53	3.12	4.10	5.60	17.76	12.80	43.21	0.82	0.40	0.00	0.00	0.33	0.23	0.12	0.37	0.32	0.08	0.18	0.32	0.38	1.08	0.11	0.53	0.04	1.187	0.045
32	Nam Long Shan Road	1	940	2.78	7.97	0.00	4.48	6.41	1.58	8.36	2.21	0.54	2.63	4.15	5.65	17.95	12.93	43.67	0.83	0.39	0.00	0.00	0.33	0.23	0.12	0.56	0.33	0.08	0.15	0.32	0.39	1.09	0.11	0.53	0.04	1.221	0.047
33	Welfare Road	1	100	3.23	9.36	0.00	9.35	12.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.94	0.46	0.00	0.00	0.69	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.359	0.017
34	Welfare Road	1	75	3.59	9.36	0.00	6.23	16.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.46	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.353	0.015
35	Shum Wan Road	1	450	2.15	10.92	0.00	3.12	5.36	0.00	0.00	4.62	0.75	3.29	5.78	11.81	37.49	27.01	36.49	0.86	0.30	0.00	0.00	0.23	0.19	0.00	0.00	0.68	0.11	0.19	0.45	0.80	2.28	0.23	0.45	0.04	1.497	0.059
36	Shum Wan Road	1	455	2.25	10.29	0.00	3.08	5.30	0.00	0.00	4.57	0.74	3.26	5.71	11.68	37.08	26.72	36.09	0.85	0.32	0.00	0.00	0.23	0.19	0.00	0.00	0.67	0.11	0.18	0.45	0.80	2.25	0.22	0.44	0.04	1.476	0.059
37	Shum Wan Pier Drive	1	45	2.39	10.40	0.00	0.00	0.00	0.00	0.00	11.56	1.88	0.00	0.00	0.00	0.00	0.00	91.23	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	1.70	0.27	0.00	0.00	0.00	0.00	0.00	1.11	0.00	1.175	0.034
38	Nam Long Shan Road	1	975	2.82	7.68	0.00	4.79	6.18	1.52	8.06	2.13	0.52	3.04	4.00	5.45	17.30	12.47	42.11	0.80	0.40	0.00	0.00	0.35	0.22	0.11	0.54	0.31	0.07	0.17	0.31	0.37	1.05	0.10	0.51	0.04	1.189	0.046
39	Nam Long Shan Road	1	155	3.30	7.55	0.00	3.02	7.78	0.00	0.00	0.00	0.55	3.19	0.00	0.00	0.00	0.00	52.97	1.25	0.47	0.00	0.00	0.22	0.28	0.00	0.00	0.00	0.08	0.18	0.00	0.00	0.00	0.00	0.65	0.06	0.796	0.019
40	Nam Long Shan Road	1	190	3.40	6.16	0.00	4.92	6.35	0.00	0.00	2.74	0.44	2.60	0.00	0.00	0.00	0.00	43.21	1.02	0.48	0.00	0.00	0.36	0.23	0.00	0.00	0.40	0.06	0.15	0.00	0.00	0.00	0.00	0.53	0.05	0.708	0.023
41	Police School Road	1	920	2.84	7.88	0.00	4.57	5.24	0.00	5.70	2.26	0.55	2.69	4.24	5.78	18.34	13.21	44.62	0.84	0.40	0.00	0.00	0.34	0.19	0.00	0.38	0.33	0.08	0.15	0.33	0.39	1.11	0.11	0.54	0.04	1.188	0.044
42#	Police School Road		NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	#VALUE!	#VALUE!

Emission Factors from EMFAC (Type 1 Local Road - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0539	0.4680	0.0000	0.9349	2.4114	2.9735	5.2406	1.0402	0.1691	0.9882	2.5998	5.3154	8.4347	8.1039	8.2106	0.3883
RSP	0.0076	0.0000	0.0000	0.0689	0.0857	0.2192	0.3528	0.1530	0.0241	0.0557	0.2027	0.3619	0.5121	0.0682	0.1001	0.0188

Emission Factors from EMFAC (Type 2 Primary Distributor - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0431	0.3845	0.5470	0.7465	1.7105	2.2023	3.8395	0.9811	0.1375	0.8075	1.8052	3.6698	5.8264	5.6611	5.8684	0.3421
RSP	0.0040	0.0000	0.0201	0.0469	0.0476	0.1122	0.1831	0.0796	0.0141	0.0376	0.1353	0.2436	0.2834	0.0459	0.0613	0.0083

Emission Factors from EMFAC (Type 3 Primary Distributor - 70kph)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0355	0.3117	0.0000	0.7200	1.3852	1.8410	3.2540	1.0624	0.1150	0.7566	1.3977	2.8544	4.5385	0.0000	4.9550	0.3377
RSP	0.0021	0.0000	0.0000	0.0277	0.0379	0.0691	0.1226	0.0577	0.0078	0.0383	0.1362	0.2487	0.2334	0.0000	0.0558	0.0070

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 14-15)

Traffic (Hour: 14-15)

Hour: 14-15				Flow Rate (veh./hr)																% of Total Flow															
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
1	Yip Hing St	1	125	50	20	0	10	10	10	20	0	0	0	0	0	0	0	0	5	40.00	16.00	0.00	8.00	8.00	8.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00
2	Tong Bin Lane	1	150	65	25	0	10	10	10	25	0	0	0	0	0	0	0	0	5	43.33	16.67	0.00	6.67	6.67	6.67	16.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.33
3	Tong Bin Lane (near J/Wong Chuk	1	275	115	45	0	20	10	20	45	0	0	0	5	5	5	0	0	5	41.82	16.36	0.00	7.27	3.64	7.27	16.36	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	1.82
4	Yip Kan St	1	315	130	50	0	25	15	20	50	0	5	0	5	5	5	0	0	5	41.27	15.87	0.00	7.94	4.76	6.35	15.87	0.00	1.59	0.00	1.59	1.59	1.59	0.00	0.00	1.59
5	Wong Chuk Hang Road	2	1765	720	295	0	165	100	15	50	80	45	35	25	15	15	15	125	65	40.79	16.71	0.00	9.35	5.67	0.85	2.83	4.53	2.55	1.98	1.42	0.85	0.85	0.85	7.08	3.68
6	Wong Chuk Hang Road	2	2025	830	335	5	200	115	15	55	95	45	40	25	15	15	15	145	75	40.99	16.54	0.25	9.88	5.68	0.74	2.72	4.69	2.22	1.98	1.23	0.74	0.74	0.74	7.16	3.70
7	Wong Chuk Hang Road	2	850	230	135	0	65	35	5	10	90	20	20	20	10	10	10	170	20	27.06	15.88	0.00	7.65	4.12	0.59	1.18	10.59	2.35	2.35	2.35	1.18	1.18	1.18	20.00	2.35
8	Wong Chuk Hang Road(flyover)	3	1180	545	200	0	125	75	15	40	25	25	25	10	10	10	5	25	45	46.19	16.95	0.00	10.59	6.36	1.27	3.39	2.12	2.12	2.12	0.85	0.85	0.85	0.42	2.12	3.81
9	Wong Chuk Hang Road	2	1315	615	240	0	60	35	10	30	45	30	30	25	15	20	25	125	10	46.77	18.25	0.00	4.56	2.66	0.76	2.28	3.42	2.28	2.28	1.90	1.14	1.52	1.90	9.51	0.76
10	Wong Chuk Hang Road	2	995	455	190	0	45	25	10	20	30	25	20	15	15	20	25	90	10	45.73	19.10	0.00	4.52	2.51	1.01	2.01	3.02	2.51	2.01	1.51	1.51	2.01	2.51	9.05	1.01
11	Wong Chuk Hang Road	2	830	380	165	0	35	25	10	20	25	20	15	15	5	10	20	75	10	45.78	19.88	0.00	4.22	3.01	1.20	2.41	3.01	2.41	1.81	1.81	0.60	1.20	2.41	9.04	1.20
12	Wong Chuk Hang Road(flyover)	3	1420	665	230	0	155	90	15	50	35	35	25	15	10	10	0	30	55	46.83	16.20	0.00	10.92	6.34	1.06	3.52	2.46	2.46	1.76	1.06	0.70	0.70	0.00	2.11	3.87
13	Wong Chuk Hang Road	2	830	95	100	0	40	25	0	0	130	15	5	10	10	10	25	350	15	11.45	12.05	0.00	4.82	3.01	0.00	0.00	15.66	1.81	0.60	1.20	1.20	1.20	3.01	42.17	1.81
14	Wong Chuk Hang Road	2	415	110	75	0	25	15	0	5	45	10	10	10	5	5	15	75	10	26.51	18.07	0.00	6.02	3.61	0.00	1.20	10.84	2.41	2.41	2.41	1.20	1.20	3.61	18.07	2.41
15	Wong Chuk Hang Road	2	1830	750	295	5	180	105	15	50	85	45	35	25	15	15	15	130	65	40.98	16.12	0.27	9.84	5.74	0.82	2.73	4.64	2.46	1.91	1.37	0.82	0.82	0.82	7.10	3.55
16	Nam Long Shan Road	1	1210	535	210	0	55	35	10	20	55	25	25	20	15	25	30	125	25	44.21	17.36	0.00	4.55	2.89	0.83	1.65	4.55	2.07	2.07	1.65	1.24	2.07	2.48	10.33	2.07
17	Heung Yip Road	1	675	320	60	0	90	55	5	20	0	35	25	20	10	10	0	0	25	47.41	8.89	0.00	13.33	8.15	0.74	2.96	0.00	5.19	3.70	2.96	1.48	1.48	0.00	0.00	3.70
18	Heung Yip Road	1	835	400	75	0	110	65	10	20	0	45	35	20	10	20	0	0	25	47.90	8.98	0.00	13.17	7.78	1.20	2.40	0.00	5.39	4.19	2.40	1.20	2.40	0.00	0.00	2.99
19	Heung Yip Road	1	1105	520	100	0	145	85	10	30	0	60	50	30	20	20	0	0	35	47.06	9.05	0.00	13.12	7.69	0.90	2.71	0.00	5.43	4.52	2.71	1.81	1.81	0.00	0.00	3.17
20	Yip Fat St	1	535	255	45	0	70	45	5	20	0	30	20	10	10	10	0	0	15	47.66	8.41	0.00	13.08	8.41	0.93	3.74	0.00	5.61	3.74	1.87	1.87	1.87	0.00	0.00	2.80
21	Heung Yip Road	1	550	275	55	0	70	40	0	10	0	25	25	10	10	10	0	0	20	50.00	10.00	0.00	12.73	7.27	0.00	1.82	0.00	4.55	4.55	1.82	1.82	1.82	0.00	0.00	3.64
22	Yip Fat St	1	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	Yip Fat St	1	370	175	35	0	55	30	0	10	0	20	15	10	5	5	0	0	10	47.30	9.46	0.00	14.86	8.11	0.00	2.70	0.00	5.41	4.05	2.70	1.35	1.35	0.00	0.00	2.70
24	Heung Yip Road	1	530	265	45	0	70	40	0	10	0	25	25	10	10	10	0	0	20	50.00	8.49	0.00	13.21	7.55	0.00	1.89	0.00	4.72	4.72	1.89	1.89	1.89	0.00	0.00	3.77
25	Heung Yip Road	1	670	340	85	0	70	45	5	20	0	30	30	10	5	5	0	5	20	50.75	12.69	0.00	10.45	6.72	0.75	2.99	0.00	4.48	4.48	1.49	0.75	0.75	0.00	0.75	2.99
26	Heung Yip Road	1	830	420	105	0	80	45	10	20	0	45	35	20	10	10	0	5	25	50.60	12.65	0.00	9.64	5.42	1.20	2.41	0.00	5.42	4.22	2.41	1.20	1.20	0.00	0.60	3.01
27	Heung Yip Road	1	225	115	20	0	30	20	0	5	0	10	10	5	0	0	0	0	10	51.11	8.89	0.00	13.33	8.89	0.00	2.22	0.00	4.44	4.44	2.22	0.00	0.00	0.00	0.00	4.44
28	Heung Yip Road	1	305	150	25	0	35	20	0	10	0	15	15	10	5	5	0	0	15	49.18	8.20	0.00	11.48	6.56	0.00	3.28	0.00	4.92	4.92	3.28	1.64	1.64	0.00	0.00	4.92
29	Heung Yip Road	1	430	205	40	0	55	35	0	10	0	20	20	10	10	10	0	0	15	47.67	9.30	0.00	12.79	8.14	0.00	2.33	0.00	4.65	4.65	2.33	2.33	2.33	0.00	0.00	3.49
30	Nam Long Shan Road	1	65	0	0	0	0	0	0	0	20	0	0	0	0	0	0	45	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.77	0.00	0.00	0.00	0.00	0.00	0.00	69.23	0.00
31	Nam Long Shan Road	1	1015	500	180	0	50	30	5	10	20	35	35	20	10	20	20	60	20	49.26	17.73	0.00	4.93	2.96	0.49	0.99	1.97	3.45	3.45	1.97	0.99	1.97	1.97	5.91	1.97
32	Nam Long Shan Road	1	1015	495	180	0	50	30	5	20	20	35	30	20	10	20	20	60	20	48.77	17.73	0.00	4.93	2.96	0.49	1.97	1.97	3.45	2.96	1.97	0.99	1.97	1.97	5.91	1.97
33	Welfare Road	1	100	60	20	0	10	5	0	0	0	0	0	0	0	0	0	0	5	60.00	20.00	0.00	10.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00
34	Welfare Road	1	90	60	20	0	5	5	0	0	0	0	0	0	0	0	0	0	0	66.67	22.22	0.00	5.56	5.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	Shum Wan Road	1	540	215	130	0	20	10	0	0	25	20	20	15	10	20	20	25	10	39.81	24.07	0.00	3.70	1.85	0.00	0.00	4.63	3.70	3.70	2.78	1.85	3.70	3.70	4.63	1.85
36	Shum Wan Road	1	495	195	130	0	15	10	0	0	20	20	15	10	10	20	20	20	10	39.39	26.26	0.00	3.03	2.02	0.00	0.00	4.04	4.04	3.03	2.02	2.02	4.04	4.04	4.04	2.02
37	Shum Wan Pier Drive	1	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38	Nam Long Shan Road	1	1070	520	195	0	60	30	5	20	20	35	35	20	10	20	20	60	20	48.60	18.22	0.00	5.61	2.80	0.47	1.87	1.87	3.27	3.27	1.87	0.93	1.87	1.87	5.61	1.87
39	Nam Long Shan Road	1	150	90	25	0	5	5	0	0	0	5	5	0	0	0	0	10	5	60.00	16.67	0.00	3.33	3.33	0.00	0.00	0.00	3.33	3.33	0.00	0.00	0.00	0.00	6.67	3.33
40	Nam Long Shan Road	1	180	110	25	0	10	5	0	0	5	5	5	0	0	0	0	10	5	61.11	13.89	0.00	5.56	2.78	0.00	0.00	2.78	2.78	2.78	0.00	0.00	0.00	0.00	5.56	2.78
41	Police School Road	1	995	490	190	0	50	25	0	10	20	35	25	20	10	20	20	60	20	49.25	19.10	0.00	5.03	2.51	0.00	1.01	2.01	3.52	2.51	2.01	1.01	2.01	2.01	6.03	2.01
42#	Police School Road		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 14-15)

Emission Factor Calculations (Hour: 00-01)

Hour: 14-15				% of Total Flow x Emission Factor (NOx)																	% of Total Flow x Emission Factor (RSP)																		Composite Emission Factor (g/veh·km)	
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	NOx	RSP
1	Yip Hing St	1	125	2.15	7.49	0.00	7.48	19.32	23.89	83.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.30	0.00	0.00	0.55	0.69	1.77	5.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	1.458	0.090
2	Tong Bin Lane	1	150	2.33	7.80	0.00	6.23	16.10	19.91	87.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.29	0.33	0.00	0.00	0.46	0.57	1.47	5.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	1.411	0.088
3	Tong Bin Lane (near J/Wong Chuk	1	275	2.25	7.66	0.00	6.80	8.78	21.72	85.86	0.00	0.00	0.00	4.73	9.66	15.34	0.00	0.00	0.71	0.32	0.00	0.00	0.50	0.31	1.61	5.78	0.00	0.00	0.00	0.37	0.66	0.93	0.00	0.00	0.03	1.635	0.105
4	Yip Kan St	1	315	2.22	7.43	0.00	7.42	11.50	18.96	83.29	0.00	0.27	0.00	4.13	8.44	13.39	0.00	0.00	0.62	0.31	0.00	0.00	0.55	0.41	1.40	5.61	0.00	0.04	0.00	0.32	0.57	0.81	0.00	0.00	0.03	1.577	0.101
5	Wong Chuk Hang Road	2	1765	1.76	6.43	0.00	6.98	9.69	1.87	10.88	4.45	0.35	1.60	2.56	3.12	4.95	4.81	41.57	1.26	0.17	0.00	0.00	0.44	0.27	0.10	0.52	0.36	0.04	0.07	0.19	0.21	0.24	0.04	0.43	0.03	1.023	0.031
6	Wong Chuk Hang Road	2	2025	1.77	6.36	0.14	7.37	9.72	1.63	10.43	4.60	0.31	1.60	2.23	2.72	4.32	4.19	42.03	1.27	0.17	0.00	0.00	0.46	0.27	0.08	0.50	0.37	0.03	0.07	0.17	0.18	0.21	0.03	0.44	0.03	1.007	0.030
7	Wong Chuk Hang Road	2	850	1.17	6.11	0.00	5.71	7.04	1.30	4.52	10.39	0.32	1.90	4.25	4.32	6.86	6.66	117.39	0.81	0.11	0.00	0.00	0.36	0.20	0.07	0.22	0.84	0.03	0.09	0.32	0.29	0.33	0.05	1.23	0.02	1.787	0.041
8	Wong Chuk Hang Road(flyover)	3	1180	1.64	5.28	0.00	7.63	8.81	2.34	11.03	2.25	0.24	1.60	1.18	2.42	3.85	1.97	10.50	1.29	0.10	0.00	0.00	0.29	0.24	0.09	0.42	0.12	0.02	0.08	0.12	0.21	0.20	0.02	0.12	0.03	0.620	0.020
9	Wong Chuk Hang Road	2	1315	2.02	7.02	0.00	3.41	4.55	1.67	8.76	3.36	0.31	1.84	3.43	4.19	8.86	10.76	55.79	0.26	0.19	0.00	0.00	0.21	0.13	0.09	0.42	0.27	0.03	0.09	0.26	0.28	0.43	0.09	0.58	0.01	1.162	0.031
10	Wong Chuk Hang Road	2	995	1.97	7.34	0.00	3.38	4.30	2.21	7.72	2.96	0.35	1.62	2.72	5.53	11.71	14.23	53.09	0.34	0.19	0.00	0.00	0.21	0.12	0.11	0.37	0.24	0.04	0.08	0.20	0.37	0.57	0.12	0.55	0.01	1.195	0.032
11	Wong Chuk Hang Road	2	830	1.97	7.65	0.00	3.15	5.15	2.65	9.25	2.96	0.33	1.46	3.26	2.21	7.02	13.64	53.04	0.41	0.19	0.00	0.00	0.20	0.14	0.14	0.44	0.24	0.03	0.07	0.24	0.15	0.34	0.11	0.55	0.01	1.142	0.029
12	Wong Chuk Hang Road(flyover)	3	1420	1.66	5.05	0.00	7.86	8.78	1.94	11.46	2.62	0.28	1.33	1.48	2.01	3.20	0.00	10.47	1.31	0.10	0.00	0.00	0.30	0.24	0.07	0.43	0.14	0.02	0.07	0.14	0.18	0.16	0.00	0.12	0.03	0.595	0.020
13	Wong Chuk Hang Road	2	830	0.49	4.63	0.00	3.60	5.15	0.00	0.00	15.37	0.25	0.49	2.18	4.42	7.02	17.05	247.50	0.62	0.05	0.00	0.00	0.23	0.14	0.00	0.00	1.25	0.03	0.02	0.16	0.29	0.34	0.14	2.58	0.02	3.088	0.052
14	Wong Chuk Hang Road	2	415	1.14	6.95	0.00	4.50	6.18	0.00	4.63	10.64	0.33	1.95	4.35	4.42	7.02	20.46	106.07	0.82	0.11	0.00	0.00	0.28	0.17	0.00	0.22	0.86	0.03	0.09	0.33	0.29	0.34	0.17	1.11	0.02	1.795	0.040
15	Wong Chuk Hang Road	2	1830	1.77	6.20	0.15	7.34	9.82	1.81	10.49	4.56	0.34	1.54	2.47	3.01	4.78	4.64	41.69	1.22	0.17	0.00	0.01	0.46	0.27	0.09	0.50	0.37	0.03	0.07	0.18	0.20	0.23	0.04	0.44	0.03	1.018	0.031
16	Nam Long Shan Road	1	1210	2.38	8.13	0.00	4.25	6.98	2.47	8.67	4.74	0.35	2.04	4.30	6.59	17.43	20.10	84.96	0.80	0.34	0.00	0.00	0.31	0.25	0.18	0.58	0.70	0.05	0.12	0.34	0.45	1.06	0.17	1.04	0.04	1.742	0.056
17	Heung Yip Road	1	675	2.55	4.16	0.00	12.47	19.68	2.21	15.55	0.00	0.88	3.66	7.71	7.87	12.50	0.00	0.00	1.44	0.36	0.00	0.00	0.92	0.70	0.16	1.05	0.00	0.13	0.21	0.60	0.54	0.76	0.00	0.00	0.07	0.907	0.055
18	Heung Yip Road	1	835	2.58	4.21	0.00	12.32	18.80	3.58	12.57	0.00	0.91	4.14	6.23	6.37	20.21	0.00	0.00	1.16	0.36	0.00	0.00	0.91	0.67	0.26	0.85	0.00	0.13	0.23	0.49	0.43	1.23	0.00	0.00	0.06	0.931	0.056
19	Heung Yip Road	1	1105	2.53	4.24	0.00	12.27	18.57	2.70	14.25	0.00	0.92	4.47	7.07	9.62	15.27	0.00	0.00	1.23	0.36	0.00	0.00	0.91	0.66	0.20	0.96	0.00	0.13	0.25	0.55	0.66	0.93	0.00	0.00	0.06	0.931	0.057
20	Yip Fat St	1	535	2.57	3.94	0.00	12.24	20.31	2.79	19.61	0.00	0.95	3.70	4.87	9.94	15.77	0.00	0.00	1.09	0.36	0.00	0.00	0.90	0.72	0.21	1.32	0.00	0.14	0.21	0.38	0.68	0.96	0.00	0.00	0.05	0.978	0.059
21	Heung Yip Road	1	550	2.69	4.68	0.00	11.90	17.56	0.00	9.54	0.00	0.77	4.49	4.73	9.66	15.34	0.00	0.00	1.41	0.38	0.00	0.00	0.88	0.62	0.00	0.64	0.00	0.11	0.25	0.37	0.66	0.93	0.00	0.00	0.07	0.828	0.049
22	Yip Fat St	1	5	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.054	0.008
23	Yip Fat St	1	370	2.55	4.43	0.00	13.90	19.58	0.00	14.18	0.00	0.92	4.01	7.03	7.18	11.40	0.00	0.00	1.05	0.36	0.00	0.00	1.03	0.70	0.00	0.96	0.00	0.13	0.23	0.55	0.49	0.69	0.00	0.00	0.05	0.862	0.052
24	Heung Yip Road	1	530	2.69	3.98	0.00	12.35	18.22	0.00	9.90	0.00	0.80	4.66	4.91	10.03	15.92	0.00	0.00	1.47	0.38	0.00	0.00	0.91	0.65	0.00	0.67	0.00	0.11	0.26	0.38	0.68	0.97	0.00	0.00	0.07	0.849	0.051
25	Heung Yip Road	1	670	2.73	5.94	0.00	9.77	16.22	2.23	15.66	0.00	0.76	4.43	3.88	3.97	6.30	0.00	6.14	1.16	0.39	0.00	0.00	0.72	0.58	0.16	1.06	0.00	0.11	0.25	0.30	0.27	0.38	0.00	0.07	0.06	0.792	0.043
26	Heung Yip Road	1	830	2.72	5.92	0.00	9.01	13.09	3.60	12.64	0.00	0.92	4.17	6.27	6.40	10.16	0.00	4.95	1.17	0.39	0.00	0.00	0.66	0.47	0.27	0.85	0.00	0.13	0.24	0.49	0.44	0.62	0.00	0.06	0.06	0.810	0.047
27	Heung Yip Road	1	225	2.75	4.16	0.00	12.47	21.46	0.00	11.66	0.00	0.75	4.39	5.78	0.00	0.00	0.00	0.00	1.73	0.39	0.00	0.00	0.92	0.76	0.00	0.79	0.00	0.11	0.25	0.45	0.00	0.00	0.00	0.00	0.08	0.652	0.037
28	Heung Yip Road	1	305	2.65	3.84	0.00	10.73	15.83	0.00	17.20	0.00	0.83	4.86	8.53	8.71	13.83	0.00	0.00	1.91	0.37	0.00	0.00	0.79	0.56	0.00	1.16	0.00	0.12	0.27	0.67	0.59	0.84	0.00	0.00	0.09	0.889	0.055
29	Heung Yip Road	1	430	2.57	4.36	0.00	11.96	19.65	0.00	12.20	0.00	0.79	4.60	6.05	12.36	19.62	0.00	0.00	1.35	0.36	0.00	0.00	0.88	0.70	0.00	0.82	0.00	0.11	0.26	0.47	0.84	1.19	0.00	0.00	0.07	0.955	0.057
30	Nam Long Shan Road	1	65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32.06	0.00	0.00	0.00	0.00	0.00	0.00	569.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.73	0.00	0.00	0.00	0.00	0.00	0.00	6.95	0.00	6.014	0.117
31	Nam Long Shan Road	1	1015	2.65	8.30	0.00	4.61	7.14	1.47	5.17	2.05	0.58	3.41	5.13	5.24	16.62	15.97	48.62	0.77	0.38	0.00	0.00	0.34	0.25	0.11	0.35	0.30	0.08	0.19	0.40	0.36	1.01	0.13	0.59	0.04	1.277	0.045
32	Nam Long Shan Road	1	1015	2.63	8.30	0.00	4.61	7.14	1.47	10.34	2.05	0.58	2.92	5.13	5.24	16.62	15.97	48.62	0.77	0.37	0.00	0.00	0.34	0.25	0.11	0.70	0.30	0.08	0.16	0.40	0.36	1.01	0.13	0.59	0.04	1.324	0.049
33	Welfare Road	1	100	3.23	9.37	0.00	9.35	12.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.94	0.46	0.00	0.00	0.69	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.360	0.017
34	Welfare Road	1	90	3.59	10.41	0.00	5.20	13.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.38	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.326	0.014
35	Shum Wan Road	1	540	2.14	11.27	0.00	3.46	4.47	0.00	0.00	4.82	0.63	3.66	7.23	9.84	31.25	30.02	38.08	0.72	0.30	0.00	0.00	0.26	0.16	0.00	0.00	0.71	0.09	0.21	0.56	0.67	1.90	0.25	0.46	0.03	1.476	0.056
36	Shum Wan Road	1	495	2.12	12.30	0.00	2.83	4.88	0.00	0.00	4.21	0.69	3.00	5.26	10.74	34.09	32.75	33.23	0.78	0.30	0.00	0.00	0.21	0.17	0.00	0.00	0.62	0.10	0.17	0.41	0.73	2.07	0.28	0.41	0.04	1.469	0.055
37	Shum Wan Pier Drive	1	5	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.054	0.008
38	Nam Long Shan Road	1	1070	2.62	8.53	0.00	5.24	6.77	1.40	9.81	1.95	0.55	3.23	4.87	4.97	15.77	15.15	46.12	0.73	0.37	0.00	0.00	0.39	0.24	0.10	0.66	0.29	0.08	0.18	0.38	0.34	0.96	0.13	0.56	0.04	1.277	0.047
39	Nam Long Shan Road	1	150	3.23	7.80	0.00	3.12	8.05	0.00	0.00	0.00	0.57	3.30	0.00	0.00	0.00	0.00	54.83	1.29	0.46	0.00	0.00	0.23	0.29	0.00	0.00	0.00	0.08	0.19	0.00	0.00	0.00	0.00	0.67	0.06	0.822	0.020
40	Nam Long Shan Road	1	180	3.29	6.50	0.00	5.20	6.71	0.00	0.00	2.89	0.47	2.75	0.00	0.00	0.00	0.00	45.69	1.08	0.47	0.00	0.00	0.38	0.24	0.00	0.00	0.43	0.07	0.15	0.00	0.00	0.00	0.00	0.56	0.05	0.746	0.023
41	Police School Road	1	995	2.65	8.94	0.00	4.70	6.07	0.00	5.27	2.09	0.60	2.48	5.23	5.34	16.96	16.29	49.59	0.78	0.37	0.00	0.00	0.35	0.22	0.00	0.36	0.31	0.08	0.14	0.41	0.36	1.03	0.14	0.60	0.04	1.270	0.044
42#	Police School Road		NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	#VALUE!	#VALUE!

Emission Factors from EMFAC (Type 1 Local Road - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0538	0.4683	0.0000	0.9352	2.4147	2.9861	5.2470	1.0420	0.1695	0.9886	2.6028	5.3155	8.4365	8.1051	8.2244	0.3883
RSP	0.0076	0.0000	0.0000	0.0690	0.0859	0.2207	0.3535	0.1539	0.0242	0.0558	0.2029	0.3619	0.5121	0.0682	0.1003	0.0188

Emission Factors from EMFAC (Type 2 Primary Distributor - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0431	0.3846	0.5471	0.7466	1.7108	2.2026	3.8401	0.9815	0.1377	0.8078	1.8054	3.6704	5.8273	5.6619	5.8693	0.3423
RSP	0.0040	0.0000	0.0201	0.0469	0.0476	0.1122	0.1831	0.0796	0.0141	0.0376	0.1353	0.2436	0.2834	0.0459	0.0613	0.0083

Emission Factors from EMFAC (Type 3 Primary Distributor - 70kph)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0355	0.3117	0.0000	0.7201	1.3854	1.8413	3.2545	1.0629	0.1151	0.7569	1.3979	2.8549	4.5392	4.6411	4.9558	0.3380
RSP	0.0021	0.0000	0.0000	0.0277	0.0379	0.0691	0.1226	0.0577	0.0078	0.0383	0.1362	0.2487	0.2334	0.0469	0.0558	0.0070

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 15-16)

Traffic (Hour: 15-16)

Hour: 15-16				Flow Rate (veh./hr)																% of Total Flow															
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
1	Yip Hing St	1	130	50	20	0	10	10	10	20	0	0	0	0	0	0	0	0	10	38.46	15.38	0.00	7.69	7.69	7.69	15.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.69
2	Tong Bin Lane	1	155	65	25	0	10	10	10	25	0	0	0	0	0	0	0	0	10	41.94	16.13	0.00	6.45	6.45	6.45	16.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.45
3	Tong Bin Lane (near J/Wong Chuk	1	260	110	45	0	20	10	20	45	0	0	0	0	0	0	0	0	10	42.31	17.31	0.00	7.69	3.85	7.69	17.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.85
4	Yip Kan St	1	290	120	50	0	25	15	20	50	0	0	0	0	0	0	0	0	10	41.38	17.24	0.00	8.62	5.17	6.90	17.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.45
5	Wong Chuk Hang Road	2	1735	700	275	0	170	105	20	55	75	40	30	30	20	20	10	120	65	40.35	15.85	0.00	9.80	6.05	1.15	3.17	4.32	2.31	1.73	1.73	1.15	1.15	0.58	6.92	3.75
6	Wong Chuk Hang Road	2	2010	810	315	10	205	120	20	60	95	40	40	30	20	20	10	140	75	40.30	15.67	0.50	10.20	5.97	1.00	2.99	4.73	1.99	1.99	1.49	1.00	1.00	0.50	6.97	3.73
7	Wong Chuk Hang Road	2	845	215	140	0	65	40	10	10	85	20	20	20	10	10	10	170	20	25.44	16.57	0.00	7.69	4.73	1.18	1.18	10.06	2.37	2.37	2.37	1.18	1.18	1.18	20.12	2.37
8	Wong Chuk Hang Road(flyover)	3	1165	535	185	0	130	75	20	45	30	20	20	10	10	10	0	25	50	45.92	15.88	0.00	11.16	6.44	1.72	3.86	2.58	1.72	1.72	0.86	0.86	0.86	0.00	2.15	4.29
9	Wong Chuk Hang Road	2	1270	580	220	0	65	35	10	30	45	35	35	25	20	25	20	115	10	45.67	17.32	0.00	5.12	2.76	0.79	2.36	3.54	2.76	2.76	1.97	1.57	1.97	1.57	9.06	0.79
10	Wong Chuk Hang Road	2	960	425	170	0	45	30	10	20	30	25	25	20	20	25	20	85	10	44.27	17.71	0.00	4.69	3.13	1.04	2.08	3.13	2.60	2.60	2.08	2.08	2.60	2.08	8.85	1.04
11	Wong Chuk Hang Road	2	795	355	145	0	35	25	10	20	30	25	15	20	10	15	10	70	10	44.65	18.24	0.00	4.40	3.14	1.26	2.52	3.77	3.14	1.89	2.52	1.26	1.89	1.26	8.81	1.26
12	Wong Chuk Hang Road(flyover)	3	1415	650	220	0	160	95	20	55	40	30	20	20	10	10	0	25	60	45.94	15.55	0.00	11.31	6.71	1.41	3.89	2.83	2.12	1.41	1.41	0.71	0.71	0.00	1.77	4.24
13	Wong Chuk Hang Road	2	830	105	100	0	45	25	0	0	115	10	0	10	10	10	30	355	15	12.65	12.05	0.00	5.42	3.01	0.00	0.00	13.86	1.20	0.00	1.20	1.20	1.20	3.61	42.77	1.81
14	Wong Chuk Hang Road	2	430	105	75	0	30	20	0	10	40	10	10	10	10	10	10	80	10	24.42	17.44	0.00	6.98	4.65	0.00	2.33	9.30	2.33	2.33	2.33	2.33	2.33	2.33	18.60	2.33
15	Wong Chuk Hang Road	2	1825	735	285	10	185	110	20	55	85	40	30	30	20	20	10	125	65	40.27	15.62	0.55	10.14	6.03	1.10	3.01	4.66	2.19	1.64	1.64	1.10	1.10	0.55	6.85	3.56
16	Nam Long Shan Road	1	1175	515	185	0	60	35	10	20	55	20	20	20	20	30	25	130	30	43.83	15.74	0.00	5.11	2.98	0.85	1.70	4.68	1.70	1.70	1.70	1.70	2.55	2.13	11.06	2.55
17	Heung Yip Road	1	640	280	60	0	90	55	10	20	0	35	25	20	10	10	0	0	25	43.75	9.38	0.00	14.06	8.59	1.56	3.13	0.00	5.47	3.91	3.13	1.56	1.56	0.00	0.00	3.91
18	Heung Yip Road	1	780	355	70	0	110	65	10	20	0	40	35	20	10	20	0	0	25	45.51	8.97	0.00	14.10	8.33	1.28	2.56	0.00	5.13	4.49	2.56	1.28	2.56	0.00	0.00	3.21
19	Heung Yip Road	1	1020	455	95	0	145	80	10	30	0	55	45	30	20	20	0	0	35	44.61	9.31	0.00	14.22	7.84	0.98	2.94	0.00	5.39	4.41	2.94	1.96	1.96	0.00	0.00	3.43
20	Yip Fat St	1	515	230	45	0	70	45	10	20	0	30	20	10	10	10	0	0	15	44.66	8.74	0.00	13.59	8.74	1.94	3.88	0.00	5.83	3.88	1.94	1.94	1.94	0.00	0.00	2.91
21	Heung Yip Road	1	495	235	50	0	65	40	0	10	0	25	25	10	10	10	0	0	15	47.47	10.10	0.00	13.13	8.08	0.00	2.02	0.00	5.05	5.05	2.02	2.02	2.02	0.00	0.00	3.03
22	Yip Fat St	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	Yip Fat St	1	355	155	30	0	55	30	0	10	0	20	15	10	10	10	0	0	10	43.66	8.45	0.00	15.49	8.45	0.00	2.82	0.00	5.63	4.23	2.82	2.82	2.82	0.00	0.00	2.82
24	Heung Yip Road	1	475	225	40	0	65	40	0	10	0	25	25	10	10	10	0	0	15	47.37	8.42	0.00	13.68	8.42	0.00	2.11	0.00	5.26	5.26	2.11	2.11	2.11	0.00	0.00	3.16
25	Heung Yip Road	1	635	300	80	0	70	45	10	20	0	30	30	10	10	10	0	0	20	47.24	12.60	0.00	11.02	7.09	1.57	3.15	0.00	4.72	4.72	1.57	1.57	1.57	0.00	0.00	3.15
26	Heung Yip Road	1	740	355	95	0	80	45	10	20	0	40	30	20	10	10	0	0	25	47.97	12.84	0.00	10.81	6.08	1.35	2.70	0.00	5.41	4.05	2.70	1.35	1.35	0.00	0.00	3.38
27	Heung Yip Road	1	220	100	20	0	30	20	0	10	0	10	10	10	0	0	0	0	10	45.45	9.09	0.00	13.64	9.09	0.00	4.55	0.00	4.55	4.55	4.55	0.00	0.00	0.00	0.00	4.55
28	Heung Yip Road	1	260	120	25	0	30	20	0	10	0	15	15	10	0	0	0	0	15	46.15	9.62	0.00	11.54	7.69	0.00	3.85	0.00	5.77	5.77	3.85	0.00	0.00	0.00	0.00	5.77
29	Heung Yip Road	1	405	180	40	0	55	35	0	10	0	20	20	10	10	10	0	0	15	44.44	9.88	0.00	13.58	8.64	0.00	2.47	0.00	4.94	4.94	2.47	2.47	2.47	0.00	0.00	3.70
30	Nam Long Shan Road	1	60	0	0	0	0	0	0	0	20	0	0	0	0	0	0	40	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.33	0.00	0.00	0.00	0.00	0.00	0.00	66.67	0.00
31	Nam Long Shan Road	1	910	430	155	0	50	35	10	10	20	30	30	20	10	20	15	55	20	47.25	17.03	0.00	5.49	3.85	1.10	1.10	2.20	3.30	3.30	2.20	1.10	2.20	1.65	6.04	2.20
32	Nam Long Shan Road	1	925	430	160	0	50	35	10	20	20	30	30	20	10	20	15	55	20	46.49	17.30	0.00	5.41	3.78	1.08	2.16	2.16	3.24	3.24	2.16	1.08	2.16	1.62	5.95	2.16
33	Welfare Road	1	85	50	15	0	10	10	0	0	0	0	0	0	0	0	0	0	0	58.82	17.65	0.00	11.76	11.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	Welfare Road	1	95	55	20	0	10	10	0	0	0	0	0	0	0	0	0	0	0	57.89	21.05	0.00	10.53	10.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	Shum Wan Road	1	595	250	130	0	20	15	0	0	30	25	20	15	10	20	15	30	15	42.02	21.85	0.00	3.36	2.52	0.00	0.00	5.04	4.20	3.36	2.52	1.68	3.36	2.52	5.04	2.52
36	Shum Wan Road	1	530	220	120	0	20	10	0	0	25	20	20	15	10	20	15	25	10	41.51	22.64	0.00	3.77	1.89	0.00	0.00	4.72	3.77	3.77	2.83	1.89	3.77	2.83	4.72	1.89
37	Shum Wan Pier Drive	1	20	15	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38	Nam Long Shan Road	1	950	445	160	0	60	35	10	20	20	30	30	20	10	20	15	55	20	46.84	16.84	0.00	6.32	3.68	1.05	2.11	2.11	3.16	3.16	2.11	1.05	2.11	1.58	5.79	2.11
39	Nam Long Shan Road	1	125	70	25	0	10	10	0	0	0	0	0	0	0	0	0	10	0	56.00	20.00	0.00	8.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00
40	Nam Long Shan Road	1	130	85	15	0	10	10	0	0	0	0	0	0	0	0	0	10	0	65.38	11.54	0.00	7.69	7.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.69	0.00
41	Police School Road	1	865	410	155	0	50	25	0	10	20	30	25	20	10	20	15	55	20	47.40	17.92	0.00	5.78	2.89	0.00	1.16	2.31	3.47	2.89	2.31	1.16	2.31	1.73	6.36	2.31
42#	Police School Road		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 15-16)

Emission Factor Calculations (Hour: 00-01)

Hour: 15-16				% of Total Flow x Emission Factor (NOx)																% of Total Flow x Emission Factor (RSP)																Composite Emission Factor (g/veh·km)	
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	NOx	RSP
1	Yip Hing St	1	130	2.05	7.15	0.00	7.12	17.96	23.15	80.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.28	0.00	0.00	0.52	0.63	1.72	5.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	1.413	0.087
2	Tong Bin Lane	1	155	2.23	7.50	0.00	5.97	15.06	19.41	84.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.52	0.31	0.00	0.00	0.44	0.53	1.44	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	1.374	0.085
3	Tong Bin Lane (near J/Wong Chuk	1	260	2.25	8.05	0.00	7.12	8.98	23.15	90.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	0.31	0.00	0.00	0.52	0.31	1.72	6.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	1.420	0.091
4	Yip Kan St	1	290	2.20	8.01	0.00	7.98	12.07	20.75	90.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.34	0.30	0.00	0.00	0.58	0.42	1.54	6.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	1.430	0.090
5	Wong Chuk Hang Road	2	1735	1.74	6.11	0.00	7.33	10.37	2.54	12.19	4.26	0.32	1.40	3.13	4.24	6.73	3.27	40.65	1.29	0.16	0.00	0.00	0.46	0.29	0.13	0.58	0.34	0.03	0.07	0.23	0.28	0.33	0.03	0.42	0.03	1.056	0.034
6	Wong Chuk Hang Road	2	2010	1.74	6.04	0.27	7.63	10.23	2.19	11.48	4.65	0.28	1.61	2.70	3.66	5.81	2.82	40.94	1.28	0.16	0.00	0.01	0.48	0.28	0.11	0.55	0.38	0.03	0.07	0.20	0.24	0.28	0.02	0.43	0.03	1.033	0.033
7	Wong Chuk Hang Road	2	845	1.10	6.39	0.00	5.75	8.11	2.61	4.55	9.91	0.33	1.92	4.28	4.35	6.91	6.71	118.25	0.81	0.10	0.00	0.00	0.36	0.23	0.13	0.22	0.80	0.03	0.09	0.32	0.29	0.34	0.05	1.23	0.02	1.820	0.042
8	Wong Chuk Hang Road(flyover)	3	1165	1.63	4.96	0.00	8.05	8.93	3.17	12.59	2.75	0.20	1.30	1.20	2.45	3.90	0.00	10.65	1.46	0.10	0.00	0.00	0.31	0.24	0.12	0.47	0.15	0.01	0.07	0.12	0.21	0.20	0.00	0.12	0.03	0.632	0.021
9	Wong Chuk Hang Road	2	1270	1.98	6.68	0.00	3.83	4.72	1.74	9.08	3.49	0.38	2.23	3.56	5.79	11.49	8.93	53.22	0.27	0.18	0.00	0.00	0.24	0.13	0.09	0.43	0.28	0.04	0.10	0.27	0.38	0.56	0.07	0.56	0.01	1.174	0.033
10	Wong Chuk Hang Road	2	960	1.91	6.83	0.00	3.51	5.35	2.30	8.01	3.08	0.36	2.11	3.77	7.66	15.20	11.81	52.04	0.36	0.18	0.00	0.00	0.22	0.15	0.12	0.38	0.25	0.04	0.10	0.28	0.51	0.74	0.10	0.54	0.01	1.243	0.036
11	Wong Chuk Hang Road	2	795	1.93	7.03	0.00	3.29	5.39	2.77	9.67	3.72	0.43	1.53	4.55	4.62	11.01	7.13	51.75	0.43	0.18	0.00	0.00	0.21	0.15	0.14	0.46	0.30	0.04	0.07	0.34	0.31	0.53	0.06	0.54	0.01	1.153	0.033
12	Wong Chuk Hang Road(flyover)	3	1415	1.64	4.86	0.00	8.15	9.31	2.61	12.67	3.01	0.25	1.07	1.98	2.02	3.21	0.00	8.77	1.44	0.10	0.00	0.00	0.31	0.25	0.10	0.48	0.16	0.02	0.05	0.19	0.18	0.16	0.00	0.10	0.03	0.610	0.021
13	Wong Chuk Hang Road	2	830	0.55	4.65	0.00	4.05	5.16	0.00	0.00	13.64	0.17	0.00	2.18	4.43	7.03	20.49	251.40	0.62	0.05	0.00	0.00	0.25	0.14	0.00	0.00	1.10	0.02	0.00	0.16	0.29	0.34	0.17	2.62	0.02	3.144	0.052
14	Wong Chuk Hang Road	2	430	1.06	6.73	0.00	5.22	7.97	0.00	8.94	9.16	0.32	1.88	4.20	8.55	13.57	13.19	109.36	0.80	0.10	0.00	0.00	0.33	0.22	0.00	0.43	0.74	0.03	0.09	0.31	0.57	0.66	0.11	1.14	0.02	1.909	0.047
15	Wong Chuk Hang Road	2	1825	1.74	6.02	0.30	7.58	10.33	2.42	11.59	4.59	0.30	1.33	2.97	4.03	6.40	3.11	40.26	1.22	0.16	0.00	0.01	0.48	0.29	0.12	0.55	0.37	0.03	0.06	0.22	0.27	0.31	0.03	0.42	0.03	1.042	0.033
16	Nam Long Shan Road	1	1175	2.33	7.32	0.00	4.73	6.95	2.56	8.94	4.89	0.29	1.69	4.44	9.06	21.57	17.27	87.07	1.00	0.32	0.00	0.00	0.35	0.24	0.19	0.60	0.72	0.04	0.09	0.35	0.62	1.31	0.15	1.05	0.05	1.801	0.061
17	Heung Yip Road	1	640	2.33	4.36	0.00	13.02	20.06	4.70	16.42	0.00	0.93	3.87	8.15	8.32	13.20	0.00	0.00	1.52	0.32	0.00	0.00	0.95	0.70	0.35	1.10	0.00	0.13	0.22	0.63	0.57	0.80	0.00	0.00	0.07	0.969	0.058
18	Heung Yip Road	1	780	2.42	4.17	0.00	13.05	19.45	3.86	13.47	0.00	0.87	4.45	6.69	6.82	21.66	0.00	0.00	1.25	0.33	0.00	0.00	0.96	0.68	0.29	0.91	0.00	0.12	0.25	0.52	0.46	1.31	0.00	0.00	0.06	0.982	0.059
19	Heung Yip Road	1	1020	2.37	4.33	0.00	13.16	18.31	2.95	15.45	0.00	0.92	4.37	7.67	10.44	16.57	0.00	0.00	1.34	0.33	0.00	0.00	0.96	0.64	0.22	1.04	0.00	0.13	0.25	0.60	0.71	1.00	0.00	0.00	0.06	0.979	0.059
20	Yip Fat St	1	515	2.38	4.06	0.00	12.58	20.40	5.84	20.41	0.00	0.99	3.85	5.06	10.33	16.40	0.00	0.00	1.14	0.33	0.00	0.00	0.92	0.71	0.43	1.37	0.00	0.14	0.22	0.39	0.70	0.99	0.00	0.00	0.05	1.034	0.063
21	Heung Yip Road	1	495	2.53	4.70	0.00	12.15	18.86	0.00	10.62	0.00	0.86	5.00	5.27	10.75	17.07	0.00	0.00	1.18	0.35	0.00	0.00	0.89	0.66	0.00	0.71	0.00	0.12	0.28	0.41	0.73	1.03	0.00	0.00	0.06	0.890	0.052
22	Yip Fat St	1	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
23	Yip Fat St	1	355	2.32	3.93	0.00	14.34	19.73	0.00	14.80	0.00	0.96	4.19	7.35	14.99	23.80	0.00	0.00	1.10	0.32	0.00	0.00	1.05	0.69	0.00	1.00	0.00	0.14	0.24	0.57	1.02	1.44	0.00	0.00	0.05	1.075	0.065
24	Heung Yip Road	1	475	2.52	3.91	0.00	12.67	19.66	0.00	11.06	0.00	0.89	5.21	5.49	11.20	17.79	0.00	0.00	1.23	0.35	0.00	0.00	0.93	0.69	0.00	0.74	0.00	0.13	0.29	0.43	0.76	1.08	0.00	0.00	0.06	0.916	0.055
25	Heung Yip Road	1	635	2.51	5.86	0.00	10.20	16.54	4.74	16.55	0.00	0.80	4.68	4.11	8.38	13.30	0.00	0.00	1.23	0.35	0.00	0.00	0.75	0.58	0.35	1.11	0.00	0.11	0.26	0.32	0.57	0.81	0.00	0.00	0.06	0.889	0.053
26	Heung Yip Road	1	740	2.55	5.97	0.00	10.01	14.20	4.07	14.20	0.00	0.92	4.02	7.05	7.19	11.42	0.00	0.00	1.32	0.35	0.00	0.00	0.73	0.50	0.30	0.96	0.00	0.13	0.23	0.55	0.49	0.69	0.00	0.00	0.06	0.829	0.050
27	Heung Yip Road	1	220	2.42	4.23	0.00	12.62	21.22	0.00	23.88	0.00	0.77	4.50	11.85	0.00	0.00	0.00	0.00	1.77	0.33	0.00	0.00	0.92	0.74	0.00	1.61	0.00	0.11	0.25	0.92	0.00	0.00	0.00	0.00	0.09	0.833	0.050
28	Heung Yip Road	1	260	2.46	4.47	0.00	10.68	17.96	0.00	20.21	0.00	0.98	5.72	10.03	0.00	0.00	0.00	0.00	2.25	0.34	0.00	0.00	0.78	0.63	0.00	1.36	0.00	0.14	0.32	0.78	0.00	0.00	0.00	0.00	0.11	0.747	0.045
29	Heung Yip Road	1	405	2.37	4.59	0.00	12.57	20.17	0.00	12.97	0.00	0.84	4.89	6.44	13.14	20.86	0.00	0.00	1.44	0.33	0.00	0.00	0.92	0.70	0.00	0.87	0.00	0.12	0.28	0.50	0.89	1.26	0.00	0.00	0.07	1.003	0.059
30	Nam Long Shan Road	1	60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.84	0.00	0.00	0.00	0.00	0.00	0.00	524.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.13	0.00	0.00	0.00	0.00	0.00	0.00	6.32	0.00	5.595	0.115
31	Nam Long Shan Road	1	910	2.52	7.92	0.00	5.09	8.98	3.31	5.77	2.30	0.56	3.27	5.73	5.85	18.57	13.38	47.56	0.86	0.35	0.00	0.00	0.37	0.31	0.25	0.39	0.34	0.08	0.18	0.45	0.40	1.13	0.11	0.57	0.04	1.317	0.050
32	Nam Long Shan Road	1	925	2.47	8.04	0.00	5.00	8.83	3.25	11.36	2.26	0.55	3.21	5.64	5.75	18.27	13.16	46.79	0.84	0.34	0.00	0.00	0.37	0.31	0.24	0.76	0.33	0.08	0.18	0.44	0.39	1.11	0.11	0.56	0.04	1.354	0.053
33	Welfare Road	1	85	3.13	8.20	0.00	10.89	27.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.80	0.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.497	0.022
34	Welfare Road	1	95	3.08	9.79	0.00	9.74	24.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.71	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.472	0.020
35	Shum Wan Road	1	595	2.24	10.16	0.00	3.11	5.89	0.00	0.00	5.27	0.71	3.33	6.57	8.95	28.40	20.46	39.68	0.98	0.31	0.00	0.00	0.23	0.21	0.00	0.00	0.78	0.10	0.19	0.51	0.61	1.72	0.17	0.48	0.05	1.357	0.053
36	Shum Wan Road	1	530	2.21	10.52	0.00	3.49	4.40	0.00	0.00	4.93	0.64	3.74	7.38	10.04	31.88	22.97	37.12	0.74	0.30	0.00	0.00	0.26	0.15	0.00	0.00	0.73	0.09	0.21	0.57	0.68	1.93	0.19	0.45	0.04	1.401	0.056
37	Shum Wan Pier Drive	1	20	3.99	11.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.156	0.005
38	Nam Long Shan Road	1	950	2.49	7.83	0.00	5.85	8.60	3.17	11.06	2.20	0.54	3.13	5.49	5.60	17.79	12.82	45.56	0.82	0.34	0.00	0.00	0.43	0.30	0.23	0.74	0.32	0.08	0.18	0.43	0.38	1.08	0.11	0.55	0.04	1.329	0.052
39	Nam Long Shan Road	1	125	2.98	9.30	0.00	7.40	18.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.96	0.00	0.41	0.00	0.00	0.54	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.013	0.024
40	Nam Long Shan Road	1	130	3.48	5.36	0.00	7.12	17.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	60.54	0.00	0.48	0.00	0.00	0.52	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.00	0.945	0.024
41	Police School Road	1	865	2.52	8.33	0.00	5.35	6.75	0.00	6.07	2.42	0.59	2.86	6.03	6.15	19.53	14.08	50.04	0.90	0.35	0.00	0.00	0.39	0.24	0.00	0.41	0.36	0.08	0.16	0.47	0.42	1.18	0.12	0.60	0.04	1.316	0.048
42#	Police School Road		NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	#VALUE!	#VALUE!

Emission Factors from EMFAC (Type 1 Local Road - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0532	0.4648	0.0000	0.9255	2.3344	3.0093	5.2546	1.0452	0.1699	0.9908	2.6077	5.3223	8.4485	8.1166	7.8697	0.3900
RSP	0.0073	0.0000	0.0000	0.0677	0.0815	0.2232	0.3535	0.1540	0.0241	0.0557	0.2030	0.3619	0.5121	0.0682	0.0947	0.0187

Emission Factors from EMFAC (Type 2 Primary Distributor - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0433	0.3856	0.5480	0.7477	1.7133	2.2058	3.8457	0.9848	0.1383	0.8098	1.8081	3.6757	5.8358	5.6702	5.8778	0.3438
RSP	0.0040	0.0000	0.0201	0.0469	0.0476	0.1122	0.1831	0.0796	0.0141	0.0376	0.1353	0.2436	0.2834	0.0459	0.0613	0.0083

Emission Factors from EMFAC (Type 3 Primary Distributor - 70kph)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0356	0.3126	0.0000	0.7211	1.3874	1.8439	3.2593	1.0665	0.1156	0.7590	1.3999	2.8590	4.5458	0.0000	4.9630	0.3394
RSP	0.0021	0.0000	0.0000	0.0277	0.0379	0.0691	0.1226	0.0577	0.0078	0.0383	0.1362	0.2487	0.2334	0.0000	0.0558	0.0070

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 16-17)

Traffic (Hour: 16-17)

Hour: 16-17				Flow Rate (veh./hr)																% of Total Flow															
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
1	Yip Hing St	1	130	50	20	0	10	10	10	20	0	0	0	0	0	0	0	0	10	38.46	15.38	0.00	7.69	7.69	7.69	15.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.69
2	Tong Bin Lane	1	165	65	30	0	10	10	10	30	0	0	0	0	0	0	0	0	10	39.39	18.18	0.00	6.06	6.06	6.06	18.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.06
3	Tong Bin Lane (near J/Wong Chuk	1	275	115	50	0	20	10	20	50	0	0	0	0	0	0	0	0	10	41.82	18.18	0.00	7.27	3.64	7.27	18.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.64
4	Yip Kan St	1	280	120	50	0	20	10	20	50	0	0	0	0	0	0	0	0	10	42.86	17.86	0.00	7.14	3.57	7.14	17.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.57
5	Wong Chuk Hang Road	2	1715	675	270	0	175	105	20	55	75	40	30	30	20	20	15	115	70	39.36	15.74	0.00	10.20	6.12	1.17	3.21	4.37	2.33	1.75	1.75	1.17	1.17	0.87	6.71	4.08
6	Wong Chuk Hang Road	2	2000	785	310	10	215	125	20	65	90	40	40	30	20	20	15	135	80	39.25	15.50	0.50	10.75	6.25	1.00	3.25	4.50	2.00	2.00	1.50	1.00	1.00	0.75	6.75	4.00
7	Wong Chuk Hang Road	2	830	195	140	0	70	40	10	10	85	20	20	20	10	10	10	170	20	23.49	16.87	0.00	8.43	4.82	1.20	1.20	10.24	2.41	2.41	2.41	1.20	1.20	1.20	20.48	2.41
8	Wong Chuk Hang Road(flyover)	3	1160	525	180	0	135	80	20	45	30	20	20	10	10	10	5	20	50	45.26	15.52	0.00	11.64	6.90	1.72	3.88	2.59	1.72	1.72	0.86	0.86	0.86	0.43	1.72	4.31
9	Wong Chuk Hang Road	2	1290	560	240	0	65	40	10	30	50	35	35	30	20	25	30	110	10	43.41	18.60	0.00	5.04	3.10	0.78	2.33	3.88	2.71	2.71	2.33	1.55	1.94	2.33	8.53	0.78
10	Wong Chuk Hang Road	2	970	405	190	0	50	30	10	20	30	30	25	20	20	25	30	75	10	41.75	19.59	0.00	5.15	3.09	1.03	2.06	3.09	3.09	2.58	2.06	2.06	2.58	3.09	7.73	1.03
11	Wong Chuk Hang Road	2	825	340	170	0	40	30	10	20	30	25	20	20	10	15	20	65	10	41.21	20.61	0.00	4.85	3.64	1.21	2.42	3.64	3.03	2.42	2.42	1.21	1.82	2.42	7.88	1.21
12	Wong Chuk Hang Road(flyover)	3	1395	635	210	0	165	95	20	55	40	30	20	20	10	10	0	25	60	45.52	15.05	0.00	11.83	6.81	1.43	3.94	2.87	2.15	1.43	1.43	0.72	0.72	0.00	1.79	4.30
13	Wong Chuk Hang Road	2	835	110	100	0	45	30	0	0	105	10	0	10	10	10	30	355	20	13.17	11.98	0.00	5.39	3.59	0.00	0.00	12.57	1.20	0.00	1.20	1.20	1.20	3.59	42.51	2.40
14	Wong Chuk Hang Road	2	440	100	85	0	30	20	0	10	40	10	10	10	10	10	15	80	10	22.73	19.32	0.00	6.82	4.55	0.00	2.27	9.09	2.27	2.27	2.27	2.27	2.27	3.41	18.18	2.27
15	Wong Chuk Hang Road	2	1825	715	285	10	195	115	20	55	80	40	30	30	20	20	15	125	70	39.18	15.62	0.55	10.68	6.30	1.10	3.01	4.38	2.19	1.64	1.64	1.10	1.10	0.82	6.85	3.84
16	Nam Long Shan Road	1	1205	510	210	0	65	40	10	20	50	20	20	20	20	30	30	130	30	42.32	17.43	0.00	5.39	3.32	0.83	1.66	4.15	1.66	1.66	1.66	1.66	2.49	2.49	10.79	2.49
17	Heung Yip Road	1	610	260	60	0	95	55	10	20	0	30	20	20	10	10	0	0	20	42.62	9.84	0.00	15.57	9.02	1.64	3.28	0.00	4.92	3.28	3.28	1.64	1.64	0.00	0.00	3.28
18	Heung Yip Road	1	750	330	70	0	115	65	10	20	0	40	30	20	10	20	0	0	20	44.00	9.33	0.00	15.33	8.67	1.33	2.67	0.00	5.33	4.00	2.67	1.33	2.67	0.00	0.00	2.67
19	Heung Yip Road	1	995	430	100	0	150	85	10	30	0	50	40	30	20	20	0	0	30	43.22	10.05	0.00	15.08	8.54	1.01	3.02	0.00	5.03	4.02	3.02	2.01	2.01	0.00	0.00	3.02
20	Yip Fat St	1	515	225	50	0	75	45	10	20	0	30	20	10	10	10	0	0	10	43.69	9.71	0.00	14.56	8.74	1.94	3.88	0.00	5.83	3.88	1.94	1.94	1.94	0.00	0.00	1.94
21	Heung Yip Road	1	460	210	50	0	70	40	0	10	0	20	20	10	10	10	0	0	10	45.65	10.87	0.00	15.22	8.70	0.00	2.17	0.00	4.35	4.35	2.17	2.17	2.17	0.00	0.00	2.17
22	Yip Fat St	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	Yip Fat St	1	345	150	30	0	55	30	0	10	0	20	10	10	10	10	0	0	10	43.48	8.70	0.00	15.94	8.70	0.00	2.90	0.00	5.80	2.90	2.90	2.90	2.90	0.00	0.00	2.90
24	Heung Yip Road	1	445	205	40	0	70	40	0	10	0	20	20	10	10	10	0	0	10	46.07	8.99	0.00	15.73	8.99	0.00	2.25	0.00	4.49	4.49	2.25	2.25	2.25	0.00	0.00	2.25
25	Heung Yip Road	1	625	285	80	0	75	45	10	20	0	30	30	10	10	10	0	0	20	45.60	12.80	0.00	12.00	7.20	1.60	3.20	0.00	4.80	4.80	1.60	1.60	1.60	0.00	0.00	3.20
26	Heung Yip Road	1	710	325	90	0	85	50	10	20	0	40	30	20	10	10	0	0	20	45.77	12.68	0.00	11.97	7.04	1.41	2.82	0.00	5.63	4.23	2.82	1.41	1.41	0.00	0.00	2.82
27	Heung Yip Road	1	210	90	20	0	30	20	0	10	0	10	10	10	0	0	0	0	10	42.86	9.52	0.00	14.29	9.52	0.00	4.76	0.00	4.76	4.76	4.76	0.00	0.00	0.00	0.00	4.76
28	Heung Yip Road	1	220	100	20	0	30	20	0	10	0	10	10	10	0	0	0	0	10	45.45	9.09	0.00	13.64	9.09	0.00	4.55	0.00	4.55	4.55	4.55	0.00	0.00	0.00	0.00	4.55
29	Heung Yip Road	1	395	170	40	0	55	40	0	10	0	20	20	10	10	10	0	0	10	43.04	10.13	0.00	13.92	10.13	0.00	2.53	0.00	5.06	5.06	2.53	2.53	2.53	0.00	0.00	2.53
30	Nam Long Shan Road	1	60	0	0	0	0	0	0	0	20	0	0	0	0	0	0	40	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.33	0.00	0.00	0.00	0.00	0.00	0.00	66.67	0.00
31	Nam Long Shan Road	1	920	400	180	0	55	35	10	10	20	30	30	20	10	20	20	60	20	43.48	19.57	0.00	5.98	3.80	1.09	1.09	2.17	3.26	3.26	2.17	1.09	2.17	2.17	6.52	2.17
32	Nam Long Shan Road	1	950	410	190	0	55	35	10	20	20	30	30	20	10	20	20	60	20	43.16	20.00	0.00	5.79	3.68	1.05	2.11	2.11	3.16	3.16	2.11	1.05	2.11	2.11	6.32	2.11
33	Welfare Road	1	75	45	10	0	10	10	0	0	0	0	0	0	0	0	0	0	0	60.00	13.33	0.00	13.33	13.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	Welfare Road	1	100	60	20	0	10	10	0	0	0	0	0	0	0	0	0	0	0	60.00	20.00	0.00	10.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	Shum Wan Road	1	625	250	155	0	20	15	0	0	30	25	20	15	10	20	20	30	15	40.00	24.80	0.00	3.20	2.40	0.00	0.00	4.80	4.00	3.20	2.40	1.60	3.20	3.20	4.80	2.40
36	Shum Wan Road	1	530	215	130	0	20	10	0	0	25	20	20	15	10	15	15	25	10	40.57	24.53	0.00	3.77	1.89	0.00	0.00	4.72	3.77	3.77	2.83	1.89	2.83	2.83	4.72	1.89
37	Shum Wan Pier Drive	1	85	40	15	0	5	0	0	0	5	5	5	5	0	0	0	5	0	47.06	17.65	0.00	5.88	0.00	0.00	0.00	5.88	5.88	5.88	5.88	0.00	0.00	0.00	5.88	0.00
38	Nam Long Shan Road	1	940	415	175	0	65	35	10	20	20	30	30	20	10	15	15	60	20	44.15	18.62	0.00	6.91	3.72	1.06	2.13	2.13	3.19	3.19	2.13	1.06	1.60	1.60	6.38	2.13
39	Nam Long Shan Road	1	110	60	20	0	10	10	0	0	0	0	0	0	0	0	0	10	0	54.55	18.18	0.00	9.09	9.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.09	0.00
40	Nam Long Shan Road	1	110	65	15	0	10	10	0	0	0	0	0	0	0	0	0	10	0	59.09	13.64	0.00	9.09	9.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.09	0.00
41	Police School Road	1	845	375	165	0	55	30	0	10	20	30	20	20	10	15	15	60	20	44.38	19.53	0.00	6.51	3.55	0.00	1.18	2.37	3.55	2.37	2.37	1.18	1.78	1.78	7.10	2.37
42#	Police School Road		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 16-17)

Emission Factor Calculations (Hour: 00-01)

Hour: 16-17				% of Total Flow x Emission Factor (NOx)																	% of Total Flow x Emission Factor (RSP)																		Composite Emission Factor (g/veh·km)	
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	NOx	RSP
1	Yip Hing St	1	130	2.05	7.18	0.00	7.13	18.00	23.17	80.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.02	0.28	0.00	0.00	0.52	0.63	1.72	5.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	1.413	0.087
2	Tong Bin Lane	1	165	2.10	8.49	0.00	5.62	14.18	18.26	95.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.38	0.29	0.00	0.00	0.41	0.49	1.35	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	1.464	0.091
3	Tong Bin Lane (near J/Wong Chuk	1	275	2.23	8.49	0.00	6.74	8.51	21.91	95.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.43	0.31	0.00	0.00	0.49	0.30	1.62	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	1.447	0.092
4	Yip Kan St	1	280	2.29	8.34	0.00	6.62	8.35	21.52	93.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.40	0.32	0.00	0.00	0.48	0.29	1.59	6.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	1.422	0.090
5	Wong Chuk Hang Road	2	1715	1.71	6.08	0.00	7.64	10.50	2.58	12.35	4.32	0.32	1.42	3.17	4.29	6.81	4.97	39.46	1.41	0.16	0.00	0.00	0.48	0.29	0.13	0.59	0.35	0.03	0.07	0.24	0.28	0.33	0.04	0.41	0.03	1.070	0.034
6	Wong Chuk Hang Road	2	2000	1.70	5.99	0.27	8.05	10.72	2.21	12.51	4.45	0.28	1.62	2.72	3.68	5.84	4.26	39.72	1.38	0.16	0.00	0.01	0.50	0.30	0.11	0.59	0.36	0.03	0.08	0.20	0.24	0.28	0.03	0.41	0.03	1.054	0.034
7	Wong Chuk Hang Road	2	830	1.02	6.52	0.00	6.31	8.27	2.66	4.64	10.12	0.33	1.96	4.36	4.43	7.04	6.84	120.53	0.83	0.10	0.00	0.00	0.40	0.23	0.14	0.22	0.82	0.03	0.09	0.33	0.29	0.34	0.06	1.26	0.02	1.859	0.043
8	Wong Chuk Hang Road(flyover)	3	1160	1.61	4.86	0.00	8.40	9.58	3.18	12.66	2.77	0.20	1.31	1.21	2.47	3.92	2.01	8.57	1.47	0.09	0.00	0.00	0.32	0.26	0.12	0.48	0.15	0.01	0.07	0.12	0.21	0.20	0.02	0.10	0.03	0.642	0.022
9	Wong Chuk Hang Road	2	1290	1.88	7.19	0.00	3.77	5.32	1.71	8.95	3.83	0.38	2.20	4.21	5.71	11.32	13.20	50.18	0.27	0.18	0.00	0.00	0.24	0.15	0.09	0.43	0.31	0.04	0.10	0.31	0.38	0.55	0.11	0.52	0.01	1.201	0.034
10	Wong Chuk Hang Road	2	970	1.81	7.57	0.00	3.86	5.30	2.28	7.94	3.06	0.43	2.09	3.73	7.59	15.06	17.56	45.50	0.36	0.17	0.00	0.00	0.24	0.15	0.12	0.38	0.25	0.04	0.10	0.28	0.50	0.73	0.14	0.47	0.01	1.241	0.036
11	Wong Chuk Hang Road	2	825	1.79	7.96	0.00	3.63	6.24	2.68	9.33	3.59	0.42	1.97	4.39	4.46	10.62	13.76	46.36	0.42	0.17	0.00	0.00	0.23	0.17	0.14	0.44	0.29	0.04	0.09	0.33	0.30	0.52	0.11	0.48	0.01	1.176	0.033
12	Wong Chuk Hang Road(flyover)	3	1395	1.62	4.72	0.00	8.54	9.46	2.65	12.87	3.07	0.25	1.09	2.01	2.05	3.26	0.00	8.90	1.47	0.09	0.00	0.00	0.33	0.26	0.10	0.48	0.17	0.02	0.05	0.20	0.18	0.17	0.00	0.10	0.03	0.620	0.022
13	Wong Chuk Hang Road	2	835	0.57	4.63	0.00	4.03	6.16	0.00	0.00	12.42	0.17	0.00	2.17	4.41	7.00	20.40	250.18	0.83	0.05	0.00	0.00	0.25	0.17	0.00	0.00	1.00	0.02	0.00	0.16	0.29	0.34	0.16	2.61	0.02	3.130	0.051
14	Wong Chuk Hang Road	2	440	0.98	7.46	0.00	5.10	7.80	0.00	8.75	8.98	0.32	1.84	4.11	8.36	13.28	19.35	106.99	0.79	0.09	0.00	0.00	0.32	0.22	0.00	0.42	0.72	0.03	0.09	0.31	0.55	0.64	0.16	1.11	0.02	1.941	0.047
15	Wong Chuk Hang Road	2	1825	1.70	6.03	0.30	8.00	10.81	2.42	11.60	4.33	0.30	1.33	2.98	4.03	6.40	4.67	40.31	1.32	0.16	0.00	0.01	0.50	0.30	0.12	0.55	0.35	0.03	0.06	0.22	0.27	0.31	0.04	0.42	0.03	1.065	0.034
16	Nam Long Shan Road	1	1205	2.26	8.14	0.00	5.00	7.77	2.50	8.71	4.35	0.28	1.65	4.32	8.85	21.06	20.23	85.04	0.98	0.31	0.00	0.00	0.37	0.27	0.19	0.58	0.64	0.04	0.09	0.34	0.60	1.27	0.17	1.02	0.05	1.811	0.059
17	Heung Yip Road	1	610	2.28	4.59	0.00	14.43	21.09	4.94	17.21	0.00	0.84	3.25	8.54	8.74	13.87	0.00	0.00	1.29	0.31	0.00	0.00	1.06	0.74	0.37	1.15	0.00	0.12	0.18	0.66	0.59	0.84	0.00	0.00	0.06	1.011	0.061
18	Heung Yip Road	1	750	2.35	4.36	0.00	14.21	20.27	4.02	14.00	0.00	0.91	3.96	6.94	7.11	22.56	0.00	0.00	1.05	0.32	0.00	0.00	1.04	0.71	0.30	0.94	0.00	0.13	0.22	0.54	0.48	1.37	0.00	0.00	0.05	1.017	0.061
19	Heung Yip Road	1	995	2.31	4.69	0.00	13.97	19.98	3.03	15.82	0.00	0.86	3.98	7.85	10.71	17.00	0.00	0.00	1.18	0.32	0.00	0.00	1.02	0.70	0.22	1.06	0.00	0.12	0.22	0.61	0.73	1.03	0.00	0.00	0.06	1.014	0.061
20	Yip Fat St	1	515	2.33	4.53	0.00	13.50	20.44	5.85	20.38	0.00	1.00	3.85	5.06	10.35	16.42	0.00	0.00	0.76	0.32	0.00	0.00	0.99	0.71	0.43	1.37	0.00	0.14	0.22	0.39	0.70	0.99	0.00	0.00	0.04	1.045	0.063
21	Heung Yip Road	1	460	2.44	5.07	0.00	14.10	20.34	0.00	11.41	0.00	0.74	4.31	5.66	11.59	18.39	0.00	0.00	0.85	0.34	0.00	0.00	1.03	0.71	0.00	0.77	0.00	0.10	0.24	0.44	0.79	1.11	0.00	0.00	0.04	0.949	0.056
22	Yip Fat St	1	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
23	Yip Fat St	1	345	2.32	4.06	0.00	14.78	20.34	0.00	15.21	0.00	0.99	2.87	7.55	15.45	24.52	0.00	0.00	1.14	0.32	0.00	0.00	1.08	0.71	0.00	1.02	0.00	0.14	0.16	0.59	1.05	1.48	0.00	0.00	0.05	1.092	0.066
24	Heung Yip Road	1	445	2.46	4.20	0.00	14.58	21.03	0.00	11.79	0.00	0.77	4.45	5.85	11.98	19.01	0.00	0.00	0.88	0.34	0.00	0.00	1.07	0.73	0.00	0.79	0.00	0.11	0.25	0.45	0.81	1.15	0.00	0.00	0.04	0.970	0.057
25	Heung Yip Road	1	625	2.43	5.98	0.00	11.12	16.84	4.82	16.80	0.00	0.82	4.76	4.17	8.53	13.53	0.00	0.00	1.25	0.34	0.00	0.00	0.81	0.59	0.36	1.13	0.00	0.12	0.27	0.32	0.58	0.82	0.00	0.00	0.06	0.911	0.054
26	Heung Yip Road	1	710	2.44	5.92	0.00	11.10	16.47	4.24	14.78	0.00	0.97	4.19	7.33	7.51	11.91	0.00	0.00	1.10	0.34	0.00	0.00	0.81	0.57	0.31	0.99	0.00	0.14	0.23	0.57	0.51	0.72	0.00	0.00	0.05	0.880	0.053
27	Heung Yip Road	1	210	2.29	4.45	0.00	13.24	22.28	0.00	24.99	0.00	0.82	4.72	12.40	0.00	0.00	0.00	0.00	1.87	0.32	0.00	0.00	0.97	0.78	0.00	1.68	0.00	0.11	0.26	0.96	0.00	0.00	0.00	0.00	0.09	0.870	0.052
28	Heung Yip Road	1	220	2.43	4.24	0.00	12.64	21.27	0.00	23.86	0.00	0.78	4.51	11.84	0.00	0.00	0.00	0.00	1.78	0.33	0.00	0.00	0.92	0.74	0.00	1.60	0.00	0.11	0.25	0.92	0.00	0.00	0.00	0.00	0.09	0.833	0.050
29	Heung Yip Road	1	395	2.30	4.73	0.00	12.90	23.69	0.00	13.29	0.00	0.87	5.02	6.59	13.49	21.41	0.00	0.00	0.99	0.32	0.00	0.00	0.94	0.83	0.00	0.89	0.00	0.12	0.28	0.51	0.92	1.30	0.00	0.00	0.05	1.053	0.062
30	Nam Long Shan Road	1	60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.93	0.00	0.00	0.00	0.00	0.00	0.00	525.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.11	0.00	0.00	0.00	0.00	0.00	0.00	6.32	0.00	5.604	0.114
31	Nam Long Shan Road	1	920	2.32	9.13	0.00	5.54	8.90	3.27	5.70	2.28	0.56	3.23	5.66	5.79	18.39	17.66	51.41	0.85	0.32	0.00	0.00	0.41	0.31	0.24	0.38	0.33	0.08	0.18	0.44	0.39	1.11	0.15	0.62	0.04	1.407	0.050
32	Nam Long Shan Road	1	950	2.30	9.34	0.00	5.37	8.62	3.17	11.05	2.21	0.54	3.13	5.48	5.61	17.81	17.11	49.78	0.83	0.32	0.00	0.00	0.39	0.30	0.23	0.74	0.32	0.08	0.18	0.43	0.38	1.08	0.14	0.60	0.04	1.423	0.052
33	Welfare Road	1	75	3.20	6.22	0.00	12.36	31.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.90	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.530	0.024
34	Welfare Road	1	100	3.20	9.34	0.00	9.27	23.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.68	0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.452	0.019
35	Shum Wan Road	1	625	2.14	11.58	0.00	2.97	5.61	0.00	0.00	5.03	0.69	3.17	6.25	8.53	27.07	26.00	37.83	0.94	0.29	0.00	0.00	0.22	0.20	0.00	0.00	0.74	0.10	0.18	0.49	0.58	1.64	0.22	0.45	0.04	1.378	0.051
36	Shum Wan Road	1	530	2.17	11.45	0.00	3.50	4.41	0.00	0.00	4.94	0.65	3.74	7.37	10.06	23.94	23.00	37.18	0.74	0.30	0.00	0.00	0.26	0.15	0.00	0.00	0.72	0.09	0.21	0.57	0.68	1.45	0.19	0.45	0.04	1.331	0.051
37	Shum Wan Pier Drive	1	85	2.51	8.24	0.00	5.45	0.00	0.00	0.00	6.16	1.01	5.83	15.32	0.00	0.00	0.00	46.37	0.00	0.35	0.00	0.00	0.40	0.00	0.00	0.00	0.90	0.14	0.33	1.19	0.00	0.00	0.00	0.56	0.00	0.909	0.039
38	Nam Long Shan Road	1	940	2.36	8.69	0.00	6.41	8.71	3.20	11.17	2.23	0.55	3.16	5.54	5.67	13.50	12.97	50.31	0.83	0.32	0.00	0.00	0.47	0.30	0.24	0.75	0.33	0.08	0.18	0.43	0.39	0.82	0.11	0.61	0.04	1.353	0.051
39	Nam Long Shan Road	1	110	2.91	8.49	0.00	8.43	21.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	71.66	0.00	0.40	0.00	0.00	0.62	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.86	0.00	1.127	0.026
40	Nam Long Shan Road	1	110	3.15	6.37	0.00	8.43	21.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	71.66	0.00	0.43	0.00	0.00	0.62	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.86	0.00	1.109	0.027
41	Police School Road	1	845	2.37	9.12	0.00	6.03	8.31	0.00	6.21	2.48	0.61	2.35	6.16	6.31	15.02	14.42	55.97	0.93	0.33	0.00	0.00	0.44	0.29	0.00	0.42	0.36	0.09	0.13	0.48	0.43	0.91	0.12	0.67	0.04	1.363	0.047
42#	Police School Road		NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	#VALUE!	#VALUE!

Emission Factors from EMFAC (Type 1 Local Road - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0534	0.4668	0.0000	0.9268	2.3394	3.0124	5.2485	1.0478	0.1713	0.9912	2.6039	5.3301	8.4586	8.1256	7.8821	0.3920
RSP	0.0074	0.0000	0.0000	0.0678	0.0816	0.2232	0.3521	0.1534	0.0241	0.0556	0.2024	0.3619	0.5121	0.0682	0.0948	0.0187

Emission Factors from EMFAC (Type 2 Primary Distributor - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0433	0.3864	0.5487	0.7486	1.7152	2.2084	3.8502	0.9880	0.1390	0.8118	1.8102	3.6799	5.8425	5.6767	5.8846	0.3454
RSP	0.0040	0.0000	0.0201	0.0469	0.0476	0.1122	0.1831	0.0796	0.0141	0.0376	0.1353	0.2436	0.2834	0.0459	0.0613	0.0083

Emission Factors from EMFAC (Type 3 Primary Distributor - 70kph)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0357	0.3132	0.0000	0.7220	1.3890	1.8461	3.2630	1.0702	0.1161	0.7611	1.4015	2.8623	4.5510	4.6532	4.9687	0.3410
RSP	0.0021	0.0000	0.0000	0.0277	0.0379	0.0691	0.1226	0.0577	0.0078	0.0383	0.1362	0.2487	0.2334	0.0469	0.0558	0.0070

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 17-18)

Traffic (Hour: 17-18)

Hour: 17-18				Flow Rate (veh./hr)																% of Total Flow															
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
1	Yip Hing St	1	130	50	20	0	10	10	10	20	0	0	0	0	0	0	0	0	10	38.46	15.38	0.00	7.69	7.69	7.69	15.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.69
2	Tong Bin Lane	1	170	70	30	0	10	10	10	30	0	0	0	0	0	0	0	0	10	41.18	17.65	0.00	5.88	5.88	5.88	17.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.88
3	Tong Bin Lane (near J/Wong Chuk	1	280	120	50	0	20	10	20	50	0	0	0	0	0	0	0	0	10	42.86	17.86	0.00	7.14	3.57	7.14	17.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.57
4	Yip Kan St	1	280	120	50	0	20	10	20	50	0	0	0	0	0	0	0	0	10	42.86	17.86	0.00	7.14	3.57	7.14	17.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.57
5	Wong Chuk Hang Road	2	1690	655	260	0	180	110	20	60	70	40	30	30	20	20	15	110	70	38.76	15.38	0.00	10.65	6.51	1.18	3.55	4.14	2.37	1.78	1.78	1.18	1.18	0.89	6.51	4.14
6	Wong Chuk Hang Road	2	1980	765	300	10	220	130	20	70	90	40	40	30	20	20	15	130	80	38.64	15.15	0.51	11.11	6.57	1.01	3.54	4.55	2.02	2.02	1.52	1.01	1.01	0.76	6.57	4.04
7	Wong Chuk Hang Road	2	810	180	140	0	70	40	10	10	80	20	20	20	10	10	10	170	20	22.22	17.28	0.00	8.64	4.94	1.23	1.23	9.88	2.47	2.47	2.47	1.23	1.23	1.23	20.99	2.47
8	Wong Chuk Hang Road(flyover)	3	1150	515	170	0	140	80	20	50	30	20	20	10	10	10	5	20	50	44.78	14.78	0.00	12.17	6.96	1.74	4.35	2.61	1.74	1.74	0.87	0.87	0.87	0.43	1.74	4.35
9	Wong Chuk Hang Road	2	1270	530	240	0	70	40	10	30	50	40	40	30	20	25	35	100	10	41.73	18.90	0.00	5.51	3.15	0.79	2.36	3.94	3.15	3.15	2.36	1.57	1.97	2.76	7.87	0.79
10	Wong Chuk Hang Road	2	950	380	190	0	50	30	10	20	30	30	30	20	20	25	35	70	10	40.00	20.00	0.00	5.26	3.16	1.05	2.11	3.16	3.16	3.16	2.11	2.11	2.63	3.68	7.37	1.05
11	Wong Chuk Hang Road	2	810	320	170	0	40	30	10	20	30	30	20	20	10	15	25	60	10	39.51	20.99	0.00	4.94	3.70	1.23	2.47	3.70	3.70	2.47	2.47	1.23	1.85	3.09	7.41	1.23
12	Wong Chuk Hang Road(flyover)	3	1380	620	200	0	170	100	20	60	40	30	20	20	10	10	0	20	60	44.93	14.49	0.00	12.32	7.25	1.45	4.35	2.90	2.17	1.45	1.45	0.72	0.72	0.00	1.45	4.35
13	Wong Chuk Hang Road	2	840	120	100	0	50	30	0	0	90	10	0	10	10	10	30	360	20	14.29	11.90	0.00	5.95	3.57	0.00	0.00	10.71	1.19	0.00	1.19	1.19	1.19	3.57	42.86	2.38
14	Wong Chuk Hang Road	2	435	95	85	0	30	20	0	10	40	10	10	10	10	10	15	80	10	21.84	19.54	0.00	6.90	4.60	0.00	2.30	9.20	2.30	2.30	2.30	2.30	2.30	3.45	18.39	2.30
15	Wong Chuk Hang Road	2	1805	695	275	10	200	120	20	60	80	40	30	30	20	20	15	120	70	38.50	15.24	0.55	11.08	6.65	1.11	3.32	4.43	2.22	1.66	1.66	1.11	1.11	0.83	6.65	3.88
16	Nam Long Shan Road	1	1205	500	205	0	70	40	10	20	50	20	20	20	20	30	40	130	30	41.49	17.01	0.00	5.81	3.32	0.83	1.66	4.15	1.66	1.66	1.66	1.66	2.49	3.32	10.79	2.49
17	Heung Yip Road	1	600	240	60	0	100	60	10	20	0	30	20	20	10	10	0	0	20	40.00	10.00	0.00	16.67	10.00	1.67	3.33	0.00	5.00	3.33	3.33	1.67	1.67	0.00	0.00	3.33
18	Heung Yip Road	1	740	310	70	0	120	70	10	20	0	40	30	20	10	20	0	0	20	41.89	9.46	0.00	16.22	9.46	1.35	2.70	0.00	5.41	4.05	2.70	1.35	2.70	0.00	0.00	2.70
19	Heung Yip Road	1	980	400	100	0	160	90	10	30	0	50	40	30	20	20	0	0	30	40.82	10.20	0.00	16.33	9.18	1.02	3.06	0.00	5.10	4.08	3.06	2.04	2.04	0.00	0.00	3.06
20	Yip Fat St	1	520	220	50	0	80	50	10	20	0	30	20	10	10	10	0	0	10	42.31	9.62	0.00	15.38	9.62	1.92	3.85	0.00	5.77	3.85	1.92	1.92	1.92	0.00	0.00	1.92
21	Heung Yip Road	1	440	190	50	0	70	40	0	10	0	20	20	10	10	10	0	0	10	43.18	11.36	0.00	15.91	9.09	0.00	2.27	0.00	4.55	4.55	2.27	2.27	2.27	0.00	0.00	2.27
22	Yip Fat St	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	Yip Fat St	1	340	140	30	0	60	30	0	10	0	20	10	10	10	10	0	0	10	41.18	8.82	0.00	17.65	8.82	0.00	2.94	0.00	5.88	2.94	2.94	2.94	2.94	0.00	0.00	2.94
24	Heung Yip Road	1	420	180	40	0	70	40	0	10	0	20	20	10	10	10	0	0	10	42.86	9.52	0.00	16.67	9.52	0.00	2.38	0.00	4.76	4.76	2.38	2.38	2.38	0.00	0.00	2.38
25	Heung Yip Road	1	620	270	80	0	80	50	10	20	0	30	30	10	10	10	0	0	20	43.55	12.90	0.00	12.90	8.06	1.61	3.23	0.00	4.84	4.84	1.61	1.61	1.61	0.00	0.00	3.23
26	Heung Yip Road	1	680	290	90	0	90	50	10	20	0	40	30	20	10	10	0	0	20	42.65	13.24	0.00	13.24	7.35	1.47	2.94	0.00	5.88	4.41	2.94	1.47	1.47	0.00	0.00	2.94
27	Heung Yip Road	1	200	80	20	0	30	20	0	10	0	10	10	10	0	0	0	0	10	40.00	10.00	0.00	15.00	10.00	0.00	5.00	0.00	5.00	5.00	5.00	0.00	0.00	0.00	0.00	5.00
28	Heung Yip Road	1	200	80	20	0	30	20	0	10	0	10	10	10	0	0	0	0	10	40.00	10.00	0.00	15.00	10.00	0.00	5.00	0.00	5.00	5.00	5.00	0.00	0.00	0.00	0.00	5.00
29	Heung Yip Road	1	390	160	40	0	60	40	0	10	0	20	20	10	10	10	0	0	10	41.03	10.26	0.00	15.38	10.26	0.00	2.56	0.00	5.13	5.13	2.56	2.56	2.56	0.00	0.00	2.56
30	Nam Long Shan Road	1	60	0	0	0	0	0	0	0	20	0	0	0	0	0	0	40	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.33	0.00	0.00	0.00	0.00	0.00	0.00	66.67	0.00
31	Nam Long Shan Road	1	915	370	185	0	60	40	10	10	20	30	30	10	20	30	60	60	20	40.44	20.22	0.00	6.56	4.37	1.09	1.09	2.19	3.28	3.28	2.19	1.09	2.19	3.28	6.56	2.19
32	Nam Long Shan Road	1	955	390	195	0	60	40	10	20	20	30	30	20	10	20	30	60	20	40.84	20.42	0.00	6.28	4.19	1.05	2.09	2.09	3.14	3.14	2.09	1.05	2.09	3.14	6.28	2.09
33	Welfare Road	1	70	40	10	0	10	10	0	0	0	0	0	0	0	0	0	0	0	57.14	14.29	0.00	14.29	14.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	Welfare Road	1	100	60	20	0	10	10	0	0	0	0	0	0	0	0	0	0	0	60.00	20.00	0.00	10.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	Shum Wan Road	1	505	165	135	0	25	15	0	0	20	20	15	15	10	20	30	25	10	32.67	26.73	0.00	4.95	2.97	0.00	0.00	3.96	3.96	2.97	2.97	1.98	3.96	5.94	4.95	1.98
36	Shum Wan Road	1	465	155	115	0	25	15	0	0	20	20	15	15	10	15	25	25	10	33.33	24.73	0.00	5.38	3.23	0.00	0.00	4.30	4.30	3.23	3.23	2.15	3.23	5.38	5.38	2.15
37	Shum Wan Pier Drive	1	45	20	5	0	5	0	0	0	5	5	0	0	0	0	0	5	0	44.44	11.11	0.00	11.11	0.00	0.00	0.00	11.11	11.11	0.00	0.00	0.00	0.00	0.00	11.11	0.00
38	Nam Long Shan Road	1	925	380	175	0	70	40	10	20	20	30	30	20	10	15	25	60	20	41.08	18.92	0.00	7.57	4.32	1.08	2.16	2.16	3.24	3.24	2.16	1.08	1.62	2.70	6.49	2.16
39	Nam Long Shan Road	1	100	50	20	0	10	10	0	0	0	0	0	0	0	0	0	10	0	50.00	20.00	0.00	10.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.00	0.00
40	Nam Long Shan Road	1	90	50	10	0	10	10	0	0	0	0	0	0	0	0	0	10	0	55.56	11.11	0.00	11.11	11.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.11	0.00
41	Police School Road	1	825	340	165	0	60	30	0	10	20	30	20	20	10	15	25	60	20	41.21	20.00	0.00	7.27	3.64	0.00	1.21	2.42	3.64	2.42	2.42	1.21	1.82	3.03	7.27	2.42
42#	Police School Road		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 17-18)

Emission Factor Calculations (Hour: 00-01)

Hour: 17-18				% of Total Flow x Emission Factor (NOx)																% of Total Flow x Emission Factor (RSP)																Composite Emission Factor (g/veh·km)	
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	NOx	RSP
1	Yip Hing St	1	130	2.06	7.21	0.00	7.16	18.10	23.22	80.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.03	0.28	0.00	0.00	0.52	0.63	1.72	5.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	1.417	0.087
2	Tong Bin Lane	1	170	2.21	8.27	0.00	5.47	13.84	17.76	92.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.32	0.30	0.00	0.00	0.40	0.48	1.31	6.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	1.427	0.088
3	Tong Bin Lane (near J/Wong Chuk	1	280	2.30	8.37	0.00	6.64	8.40	21.56	93.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.41	0.32	0.00	0.00	0.48	0.29	1.59	6.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	1.426	0.090
4	Yip Kan St	1	280	2.30	8.37	0.00	6.64	8.40	21.56	93.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.41	0.32	0.00	0.00	0.48	0.29	1.59	6.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	1.426	0.090
5	Wong Chuk Hang Road	2	1690	1.69	5.97	0.00	7.99	11.19	2.62	13.70	4.11	0.33	1.45	3.22	4.37	6.93	5.05	38.39	1.50	0.16	0.00	0.00	0.50	0.31	0.13	0.65	0.33	0.03	0.07	0.24	0.29	0.34	0.04	0.40	0.05	1.085	0.035
6	Wong Chuk Hang Road	2	1980	1.68	5.88	0.28	8.34	11.29	2.24	13.64	4.51	0.28	1.65	2.75	3.73	5.92	4.31	38.73	1.46	0.16	0.00	0.01	0.52	0.31	0.11	0.65	0.36	0.03	0.08	0.20	0.25	0.29	0.03	0.40	0.05	1.067	0.034
7	Wong Chuk Hang Road	2	810	0.97	6.71	0.00	6.48	8.49	2.73	4.76	9.81	0.35	2.01	4.48	4.55	7.23	7.02	123.79	0.89	0.09	0.00	0.00	0.41	0.23	0.14	0.23	0.79	0.03	0.09	0.33	0.30	0.35	0.06	1.29	0.03	1.903	0.044
8	Wong Chuk Hang Road(flyover)	3	1150	1.60	4.65	0.00	8.81	9.68	3.22	14.22	2.81	0.20	1.33	1.22	2.49	3.97	2.03	8.66	1.49	0.09	0.00	0.00	0.34	0.26	0.12	0.53	0.15	0.01	0.07	0.12	0.22	0.20	0.02	0.10	0.03	0.664	0.023
9	Wong Chuk Hang Road	2	1270	1.82	7.33	0.00	4.14	5.41	1.74	9.12	3.91	0.44	2.57	4.29	5.81	11.53	15.68	46.44	0.28	0.17	0.00	0.00	0.26	0.15	0.09	0.43	0.31	0.04	0.12	0.32	0.38	0.56	0.13	0.48	0.01	1.205	0.035
10	Wong Chuk Hang Road	2	950	1.74	7.76	0.00	3.95	5.43	2.33	8.12	3.14	0.44	2.57	3.82	7.77	15.41	20.96	43.46	0.38	0.16	0.00	0.00	0.25	0.15	0.12	0.39	0.25	0.04	0.12	0.28	0.51	0.75	0.17	0.45	0.01	1.273	0.037
11	Wong Chuk Hang Road	2	810	1.72	8.14	0.00	3.71	6.37	2.73	9.53	3.68	0.52	2.01	4.48	4.55	10.84	17.56	43.69	0.45	0.16	0.00	0.00	0.23	0.18	0.14	0.45	0.29	0.05	0.09	0.33	0.30	0.52	0.14	0.45	0.01	1.200	0.034
12	Wong Chuk Hang Road(flyover)	3	1380	1.61	4.56	0.00	8.92	10.09	2.68	14.22	3.12	0.25	1.11	2.04	2.08	3.31	0.00	7.22	1.49	0.09	0.00	0.00	0.34	0.27	0.10	0.53	0.17	0.02	0.06	0.20	0.18	0.17	0.00	0.08	0.03	0.627	0.022
13	Wong Chuk Hang Road	2	840	0.62	4.62	0.00	4.47	6.14	0.00	0.00	10.64	0.17	0.00	2.16	4.39	6.97	20.32	252.78	0.86	0.06	0.00	0.00	0.28	0.17	0.00	0.00	0.85	0.02	0.00	0.16	0.29	0.34	0.16	2.63	0.03	3.141	0.050
14	Wong Chuk Hang Road	2	435	0.95	7.58	0.00	5.18	7.90	0.00	8.87	9.13	0.32	1.87	4.17	8.48	13.46	19.62	108.47	0.83	0.09	0.00	0.00	0.32	0.22	0.00	0.42	0.73	0.03	0.09	0.31	0.56	0.65	0.16	1.13	0.03	1.968	0.047
15	Wong Chuk Hang Road	2	1805	1.68	5.91	0.30	8.31	11.43	2.45	12.83	4.40	0.31	1.35	3.02	4.09	6.49	4.73	39.21	1.40	0.16	0.00	0.01	0.52	0.32	0.12	0.61	0.35	0.03	0.06	0.22	0.27	0.31	0.04	0.41	0.04	1.079	0.035
16	Nam Long Shan Road	1	1205	2.23	7.98	0.00	5.40	7.81	2.51	8.73	4.36	0.29	1.65	4.34	8.87	21.11	27.04	85.01	0.98	0.31	0.00	0.00	0.39	0.27	0.19	0.58	0.63	0.04	0.09	0.34	0.60	1.27	0.23	1.02	0.05	1.883	0.060
17	Heung Yip Road	1	600	2.14	4.69	0.00	15.50	23.53	5.03	17.54	0.00	0.86	3.32	8.72	8.90	14.13	0.00	0.00	1.31	0.29	0.00	0.00	1.13	0.82	0.37	1.17	0.00	0.12	0.19	0.68	0.60	0.85	0.00	0.00	0.06	1.057	0.063
18	Heung Yip Road	1	740	2.25	4.44	0.00	15.09	22.26	4.08	14.22	0.00	0.93	4.04	7.07	7.22	22.91	0.00	0.00	1.06	0.31	0.00	0.00	1.10	0.78	0.30	0.95	0.00	0.13	0.23	0.55	0.49	1.38	0.00	0.00	0.05	1.056	0.063
19	Heung Yip Road	1	980	2.19	4.78	0.00	15.19	21.61	3.08	16.10	0.00	0.88	4.07	8.01	10.90	17.30	0.00	0.00	1.21	0.30	0.00	0.00	1.11	0.75	0.23	1.08	0.00	0.12	0.23	0.62	0.74	1.05	0.00	0.00	0.06	1.053	0.063
20	Yip Fat St	1	520	2.27	4.51	0.00	14.31	22.63	5.80	20.23	0.00	0.99	3.83	5.03	10.27	16.30	0.00	0.00	0.76	0.31	0.00	0.00	1.04	0.79	0.43	1.35	0.00	0.14	0.21	0.39	0.70	0.98	0.00	0.00	0.04	1.069	0.064
21	Heung Yip Road	1	440	2.32	5.33	0.00	14.80	21.39	0.00	11.96	0.00	0.78	4.53	5.95	12.14	19.27	0.00	0.00	0.90	0.32	0.00	0.00	1.08	0.75	0.00	0.80	0.00	0.11	0.25	0.46	0.82	1.16	0.00	0.00	0.04	0.994	0.058
22	Yip Fat St	1	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
23	Yip Fat St	1	340	2.21	4.14	0.00	16.42	20.76	0.00	15.47	0.00	1.01	2.93	7.69	15.71	24.93	0.00	0.00	1.16	0.30	0.00	0.00	1.20	0.72	0.00	1.04	0.00	0.14	0.16	0.60	1.06	1.51	0.00	0.00	0.05	1.124	0.068
24	Heung Yip Road	1	420	2.30	4.47	0.00	15.50	22.41	0.00	12.53	0.00	0.82	4.74	6.23	12.72	20.18	0.00	0.00	0.94	0.32	0.00	0.00	1.13	0.78	0.00	0.84	0.00	0.11	0.27	0.48	0.86	1.22	0.00	0.00	0.04	1.028	0.061
25	Heung Yip Road	1	620	2.34	6.05	0.00	12.00	18.98	4.87	16.97	0.00	0.83	4.82	4.22	8.62	13.67	0.00	0.00	1.27	0.32	0.00	0.00	0.88	0.66	0.36	1.14	0.00	0.12	0.27	0.33	0.58	0.83	0.00	0.00	0.06	0.946	0.055
26	Heung Yip Road	1	680	2.29	6.21	0.00	12.31	17.30	4.44	15.47	0.00	1.01	4.39	7.69	7.86	12.47	0.00	0.00	1.16	0.31	0.00	0.00	0.90	0.60	0.33	1.04	0.00	0.14	0.25	0.60	0.53	0.75	0.00	0.00	0.05	0.926	0.055
27	Heung Yip Road	1	200	2.14	4.69	0.00	13.95	23.53	0.00	26.30	0.00	0.86	4.98	13.08	0.00	0.00	0.00	0.00	1.97	0.29	0.00	0.00	1.02	0.82	0.00	1.76	0.00	0.12	0.28	1.01	0.00	0.00	0.00	0.00	0.09	0.915	0.054
28	Heung Yip Road	1	200	2.14	4.69	0.00	13.95	23.53	0.00	26.30	0.00	0.86	4.98	13.08	0.00	0.00	0.00	0.00	1.97	0.29	0.00	0.00	1.02	0.82	0.00	1.76	0.00	0.12	0.28	1.01	0.00	0.00	0.00	0.00	0.09	0.915	0.054
29	Heung Yip Road	1	390	2.20	4.81	0.00	14.31	24.14	0.00	13.49	0.00	0.88	5.11	6.71	13.70	21.74	0.00	0.00	1.01	0.30	0.00	0.00	1.04	0.84	0.00	0.90	0.00	0.12	0.29	0.52	0.93	1.31	0.00	0.00	0.05	1.081	0.063
30	Nam Long Shan Road	1	60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.04	0.00	0.00	0.00	0.00	0.00	0.00	525.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.09	0.00	0.00	0.00	0.00	0.00	0.00	6.30	0.00	5.604	0.114
31	Nam Long Shan Road	1	915	2.17	9.48	0.00	6.10	10.29	3.30	5.75	2.30	0.56	3.27	5.72	5.84	18.53	26.71	51.67	0.86	0.30	0.00	0.00	0.45	0.36	0.24	0.38	0.33	0.08	0.18	0.44	0.40	1.12	0.22	0.62	0.04	1.525	0.052
32	Nam Long Shan Road	1	955	2.19	9.57	0.00	5.84	9.86	3.16	11.02	2.20	0.54	3.13	5.48	5.59	17.75	25.59	49.51	0.83	0.30	0.00	0.00	0.43	0.34	0.23	0.74	0.32	0.08	0.17	0.43	0.38	1.07	0.21	0.59	0.04	1.523	0.053
33	Welfare Road	1	70	3.06	6.70	0.00	13.29	33.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.97	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.567	0.026
34	Welfare Road	1	100	3.22	9.38	0.00	9.30	23.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.68	0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.454	0.019
35	Shum Wan Road	1	505	1.75	12.54	0.00	4.61	6.99	0.00	0.00	4.16	0.68	2.96	7.77	10.58	33.57	48.39	39.01	0.78	0.24	0.00	0.00	0.34	0.24	0.00	0.00	0.60	0.10	0.17	0.60	0.72	2.03	0.40	0.47	0.04	1.738	0.059
36	Shum Wan Road	1	465	1.79	11.60	0.00	5.00	7.59	0.00	0.00	4.52	0.74	3.21	8.44	11.49	27.35	43.79	42.37	0.85	0.25	0.00	0.00	0.36	0.26	0.00	0.00	0.66	0.10	0.18	0.65	0.78	1.65	0.37	0.51	0.04	1.687	0.058
37	Shum Wan Pier Drive	1	45	2.38	5.21	0.00	10.34	0.00	0.00	0.00	11.68	1.91	0.00	0.00	0.00	0.00	0.00	87.56	0.00	0.33	0.00	0.00	0.75	0.00	0.00	0.00	1.70	0.27	0.00	0.00	0.00	0.00	0.00	1.05	0.00	1.191	0.041
38	Nam Long Shan Road	1	925	2.20	8.87	0.00	7.04	10.18	3.26	11.37	2.27	0.56	3.23	5.66	5.77	13.75	22.01	51.11	0.85	0.30	0.00	0.00	0.51	0.35	0.24	0.76	0.33	0.08	0.18	0.44	0.39	0.83	0.18	0.61	0.04	1.481	0.053
39	Nam Long Shan Road	1	100	2.68	9.38	0.00	9.30	23.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	78.80	0.00	0.37	0.00	0.00	0.68	0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.94	0.00	1.237	0.028
40	Nam Long Shan Road	1	90	2.98	5.21	0.00	10.34	26.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87.56	0.00	0.41	0.00	0.00	0.75	0.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.05	0.00	1.322	0.031
41	Police School Road	1	825	2.21	9.38	0.00	6.77	8.56	0.00	6.38	2.55	0.63	2.41	6.34	6.47	15.41	24.68	57.31	0.96	0.30	0.00	0.00	0.49	0.30	0.00	0.43	0.37	0.09	0.14	0.49	0.44	0.93	0.21	0.69	0.05	1.501	0.049
42#	Police School Road		NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	#VALUE!	#VALUE!

Emission Factors from EMFAC (Type 1 Local Road - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0536	0.4689	0.0000	0.9303	2.3533	3.0186	5.2607	1.0512	0.1720	0.9960	2.6160	5.3418	8.4776	8.1452	7.8802	0.3940
RSP	0.0074	0.0000	0.0000	0.0679	0.0821	0.2232	0.3521	0.1526	0.0241	0.0557	0.2030	0.3619	0.5121	0.0682	0.0945	0.0187

Emission Factors from EMFAC (Type 2 Primary Distributor - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0435	0.3880	0.5500	0.7504	1.7192	2.2135	3.8590	0.9933	0.1401	0.8151	1.8143	3.6884	5.8560	5.6898	5.8982	0.3617
RSP	0.0040	0.0000	0.0201	0.0469	0.0476	0.1122	0.1831	0.0796	0.0141	0.0376	0.1353	0.2436	0.2834	0.0459	0.0613	0.0116

Emission Factors from EMFAC (Type 3 Primary Distributor - 70kph)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0358	0.3145	0.0000	0.7237	1.3922	1.8503	3.2706	1.0762	0.1170	0.7646	1.4048	2.8689	4.5615	4.6639	4.9802	0.3434
RSP	0.0021	0.0000	0.0000	0.0277	0.0379	0.0691	0.1226	0.0577	0.0078	0.0383	0.1362	0.2487	0.2334	0.0469	0.0558	0.0070

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 18-19)

Traffic (Hour: 18-19)

Hour: 18-19				Flow Rate (veh./hr)																% of Total Flow															
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
1	Yip Hing St	1	85	35	15	0	5	5	5	15	0	0	0	0	0	0	0	0	5	41.18	17.65	0.00	5.88	5.88	5.88	17.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.88
2	Tong Bin Lane	1	110	50	20	0	5	5	5	20	0	0	0	0	0	0	0	0	5	45.45	18.18	0.00	4.55	4.55	4.55	18.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.55
3	Tong Bin Lane (near J/Wong Chuk	1	195	85	35	0	15	5	15	35	0	0	0	0	0	0	0	0	5	43.59	17.95	0.00	7.69	2.56	7.69	17.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.56
4	Yip Kan St	1	200	85	35	0	15	10	15	35	0	0	0	0	0	0	0	0	5	42.50	17.50	0.00	7.50	5.00	7.50	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50
5	Wong Chuk Hang Road	2	1710	670	265	0	175	110	20	60	70	40	30	30	20	20	15	115	70	39.18	15.50	0.00	10.23	6.43	1.17	3.51	4.09	2.34	1.75	1.75	1.17	1.17	0.88	6.73	4.09
6	Wong Chuk Hang Road	2	1990	780	305	10	215	125	20	65	90	40	40	30	20	20	15	135	80	39.20	15.33	0.50	10.80	6.28	1.01	3.27	4.52	2.01	2.01	1.51	1.01	1.01	0.75	6.78	4.02
7	Wong Chuk Hang Road	2	820	190	140	0	70	40	10	10	80	20	20	20	10	10	10	170	20	23.17	17.07	0.00	8.54	4.88	1.22	1.22	9.76	2.44	2.44	2.44	1.22	1.22	1.22	20.73	2.44
8	Wong Chuk Hang Road(flyover)	3	1155	520	175	0	135	80	20	50	30	20	20	10	10	10	5	20	50	45.02	15.15	0.00	11.69	6.93	1.73	4.33	2.60	1.73	1.73	0.87	0.87	0.87	0.43	1.73	4.33
9	Wong Chuk Hang Road	2	1290	540	245	0	70	40	10	30	50	40	40	30	20	25	35	105	10	41.86	18.99	0.00	5.43	3.10	0.78	2.33	3.88	3.10	3.10	2.33	1.55	1.94	2.71	8.14	0.78
10	Wong Chuk Hang Road	2	970	390	195	0	50	30	10	20	30	30	30	20	20	25	35	75	10	40.21	20.10	0.00	5.15	3.09	1.03	2.06	3.09	3.09	3.09	2.06	2.06	2.58	3.61	7.73	1.03
11	Wong Chuk Hang Road	2	820	325	170	0	40	30	10	20	30	30	20	20	10	15	25	65	10	39.63	20.73	0.00	4.88	3.66	1.22	2.44	3.66	3.66	2.44	2.44	1.22	1.83	3.05	7.93	1.22
12	Wong Chuk Hang Road(flyover)	3	1390	630	205	0	165	100	20	60	40	30	20	20	10	10	0	20	60	45.32	14.75	0.00	11.87	7.19	1.44	4.32	2.88	2.16	1.44	1.44	0.72	0.72	0.00	1.44	4.32
13	Wong Chuk Hang Road	2	845	115	100	0	50	30	0	0	100	10	0	10	10	10	30	360	20	13.61	11.83	0.00	5.92	3.55	0.00	0.00	11.83	1.18	0.00	1.18	1.18	1.18	3.55	42.60	2.37
14	Wong Chuk Hang Road	2	440	100	85	0	30	20	0	10	40	10	10	10	10	10	15	80	10	22.73	19.32	0.00	6.82	4.55	0.00	2.27	9.09	2.27	2.27	2.27	2.27	2.27	3.41	18.18	2.27
15	Wong Chuk Hang Road	2	1810	705	280	10	195	115	20	60	80	40	30	30	20	20	15	120	70	38.95	15.47	0.55	10.77	6.35	1.10	3.31	4.42	2.21	1.66	1.66	1.10	1.10	0.83	6.63	3.87
16	Nam Long Shan Road	1	1195	500	210	0	65	40	10	20	50	20	20	20	20	25	35	130	30	41.84	17.57	0.00	5.44	3.35	0.84	1.67	4.18	1.67	1.67	1.67	1.67	2.09	2.93	10.88	2.51
17	Heung Yip Road	1	430	180	45	0	70	40	5	15	0	0	20	15	15	5	5	0	15	41.86	10.47	0.00	16.28	9.30	1.16	3.49	0.00	4.65	3.49	3.49	1.16	1.16	0.00	0.00	3.49
18	Heung Yip Road	1	535	230	50	0	85	50	5	15	0	30	20	15	5	15	0	0	15	42.99	9.35	0.00	15.89	9.35	0.93	2.80	0.00	5.61	3.74	2.80	0.93	2.80	0.00	0.00	2.80
19	Heung Yip Road	1	705	300	70	0	110	65	5	20	0	35	30	20	15	15	0	0	20	42.55	9.93	0.00	15.60	9.22	0.71	2.84	0.00	4.96	4.26	2.84	2.13	2.13	0.00	0.00	2.84
20	Yip Fat St	1	365	160	35	0	55	35	5	15	0	0	20	15	5	5	5	0	10	43.84	9.59	0.00	15.07	9.59	1.37	4.11	0.00	5.48	4.11	1.37	1.37	1.37	0.00	0.00	2.74
21	Heung Yip Road	1	320	145	35	0	50	30	0	5	0	15	15	5	5	5	0	0	10	45.31	10.94	0.00	15.63	9.38	0.00	1.56	0.00	4.69	4.69	1.56	1.56	1.56	0.00	0.00	3.13
22	Yip Fat St	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	Yip Fat St	1	235	105	20	0	40	20	0	5	0	15	10	5	5	5	0	0	5	44.68	8.51	0.00	17.02	8.51	0.00	2.13	0.00	6.38	4.26	2.13	2.13	2.13	0.00	0.00	2.13
24	Heung Yip Road	1	310	140	30	0	50	30	0	5	0	15	15	5	5	5	0	0	10	45.16	9.68	0.00	16.13	9.68	0.00	1.61	0.00	4.84	4.84	1.61	1.61	1.61	0.00	0.00	3.23
25	Heung Yip Road	1	435	200	55	0	55	35	5	15	0	20	20	5	5	5	0	0	15	45.98	12.64	0.00	12.64	8.05	1.15	3.45	0.00	4.60	4.60	1.15	1.15	1.15	0.00	0.00	3.45
26	Heung Yip Road	1	490	220	65	0	60	35	5	15	0	30	20	15	5	5	0	0	15	44.90	13.27	0.00	12.24	7.14	1.02	3.06	0.00	6.12	4.08	3.06	1.02	1.02	0.00	0.00	3.06
27	Heung Yip Road	1	135	60	15	0	20	15	0	5	0	5	5	5	0	0	0	0	5	44.44	11.11	0.00	14.81	11.11	0.00	3.70	0.00	3.70	3.70	3.70	0.00	0.00	0.00	0.00	3.70
28	Heung Yip Road	1	155	65	15	0	20	15	0	5	0	10	10	5	0	0	0	0	10	41.94	9.68	0.00	12.90	9.68	0.00	3.23	0.00	6.45	6.45	3.23	0.00	0.00	0.00	0.00	6.45
29	Heung Yip Road	1	280	120	30	0	40	30	0	5	0	15	15	5	5	5	0	0	10	42.86	10.71	0.00	14.29	10.71	0.00	1.79	0.00	5.36	5.36	1.79	1.79	1.79	0.00	0.00	3.57
30	Nam Long Shan Road	1	45	0	0	0	0	0	0	0	15	0	0	0	0	0	0	30	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.33	0.00	0.00	0.00	0.00	0.00	0.00	66.67	0.00
31	Nam Long Shan Road	1	675	280	155	0	40	25	5	5	15	20	20	15	5	10	25	40	15	41.48	22.96	0.00	5.93	3.70	0.74	0.74	2.22	2.96	2.96	2.22	0.74	1.48	3.70	5.93	2.22
32	Nam Long Shan Road	1	705	290	165	0	40	25	5	15	15	20	20	15	5	10	25	40	15	41.13	23.40	0.00	5.67	3.55	0.71	2.13	2.13	2.84	2.84	2.13	0.71	1.42	3.55	5.67	2.13
33	Welfare Road	1	50	30	10	0	5	5	0	0	0	0	0	0	0	0	0	0	0	60.00	20.00	0.00	10.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	Welfare Road	1	65	40	15	0	5	5	0	0	0	0	0	0	0	0	0	0	0	61.54	23.08	0.00	7.69	7.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	Shum Wan Road	1	475	150	135	0	20	15	0	0	20	20	15	15	10	15	25	25	10	31.58	28.42	0.00	4.21	3.16	0.00	0.00	4.21	4.21	3.16	3.16	2.11	3.16	5.26	5.26	2.11
36	Shum Wan Road	1	425	135	105	0	20	15	0	0	20	20	15	15	10	15	20	25	10	31.76	24.71	0.00	4.71	3.53	0.00	0.00	4.71	4.71	3.53	3.53	2.35	3.53	4.71	5.88	2.35
37	Shum Wan Pier Drive	1	15	10	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66.67	33.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38	Nam Long Shan Road	1	675	285	135	0	50	25	5	15	15	20	20	15	5	10	20	40	15	42.22	20.00	0.00	7.41	3.70	0.74	2.22	2.22	2.96	2.96	2.22	0.74	1.48	2.96	5.93	2.22
39	Nam Long Shan Road	1	70	40	15	0	5	5	0	0	0	0	0	0	0	0	0	5	0	57.14	21.43	0.00	7.14	7.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.14	0.00
40	Nam Long Shan Road	1	70	45	10	0	5	5	0	0	0	0	0	0	0	0	0	5	0	64.29	14.29	0.00	7.14	7.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.14	0.00
41	Police School Road	1	600	255	125	0	40	20	0	5	15	20	15	15	5	10	20	40	15	42.50	20.83	0.00	6.67	3.33	0.00	0.83	2.50	3.33	2.50	2.50	0.83	1.67	3.33	6.67	2.50
42#	Police School Road		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 18-19)

Emission Factor Calculations (Hour: 00-01)

Hour: 18-19				% of Total Flow x Emission Factor (NOx)																	% of Total Flow x Emission Factor (RSP)																	Composite Emission Factor (g/veh·km)	
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	NOx	RSP
1	Yip Hing St	1	85	2.20	8.25	0.00	5.47	13.89	17.89	92.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.32	0.30	0.00	0.00	0.40	0.49	1.33	6.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	1.421	0.088
2	Tong Bin Lane	1	110	2.43	8.50	0.00	4.23	10.74	13.82	94.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.79	0.33	0.00	0.00	0.31	0.38	1.03	6.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	1.364	0.085
3	Tong Bin Lane (near J/Wong Chuk	1	195	2.33	8.40	0.00	7.15	6.06	23.39	93.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.01	0.32	0.00	0.00	0.52	0.21	1.74	6.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	1.420	0.091
4	Yip Kan St	1	200	2.27	8.19	0.00	6.97	11.81	22.81	91.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98	0.31	0.00	0.00	0.51	0.41	1.69	6.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	1.444	0.091
5	Wong Chuk Hang Road	2	1710	1.70	6.00	0.00	7.68	11.06	2.59	13.54	4.07	0.33	1.43	3.18	4.31	6.85	4.99	39.66	1.48	0.16	0.00	0.00	0.48	0.31	0.13	0.64	0.33	0.03	0.07	0.24	0.28	0.33	0.04	0.41	0.05	1.089	0.035
6	Wong Chuk Hang Road	2	1990	1.70	5.94	0.28	8.11	10.80	2.22	12.60	4.49	0.28	1.64	2.73	3.71	5.88	4.29	40.00	1.46	0.16	0.00	0.01	0.51	0.30	0.11	0.60	0.36	0.03	0.08	0.20	0.24	0.28	0.03	0.42	0.05	1.061	0.034
7	Wong Chuk Hang Road	2	820	1.01	6.61	0.00	6.40	8.38	2.70	4.70	9.69	0.34	1.99	4.42	4.50	7.14	6.94	122.25	0.88	0.09	0.00	0.00	0.40	0.23	0.14	0.22	0.78	0.03	0.09	0.33	0.30	0.35	0.06	1.27	0.03	1.880	0.043
8	Wong Chuk Hang Road(flyover)	3	1155	1.61	4.76	0.00	8.46	9.64	3.20	14.15	2.80	0.20	1.32	1.22	2.48	3.95	2.02	8.62	1.49	0.09	0.00	0.00	0.32	0.26	0.12	0.53	0.15	0.01	0.07	0.12	0.22	0.20	0.02	0.10	0.03	0.659	0.022
9	Wong Chuk Hang Road	2	1290	1.82	7.36	0.00	4.07	5.33	1.72	8.97	3.85	0.43	2.53	4.22	5.72	11.35	15.43	48.00	0.28	0.17	0.00	0.00	0.25	0.15	0.09	0.43	0.31	0.04	0.12	0.31	0.38	0.55	0.12	0.50	0.01	1.211	0.034
10	Wong Chuk Hang Road	2	970	1.75	7.79	0.00	3.87	5.32	2.28	7.95	3.07	0.43	2.52	3.74	7.60	15.09	20.52	45.59	0.37	0.16	0.00	0.00	0.24	0.15	0.12	0.38	0.25	0.04	0.12	0.28	0.50	0.73	0.17	0.47	0.01	1.279	0.036
11	Wong Chuk Hang Road	2	820	1.72	8.03	0.00	3.66	6.29	2.70	9.41	3.64	0.51	1.99	4.42	4.50	10.71	17.34	46.74	0.44	0.16	0.00	0.00	0.23	0.17	0.14	0.45	0.29	0.05	0.09	0.33	0.30	0.52	0.14	0.49	0.01	1.221	0.034
12	Wong Chuk Hang Road(flyover)	3	1390	1.62	4.63	0.00	8.59	10.01	2.66	14.11	3.10	0.25	1.10	2.02	2.06	3.28	0.00	7.16	1.48	0.09	0.00	0.00	0.33	0.27	0.10	0.53	0.17	0.02	0.06	0.20	0.18	0.17	0.00	0.08	0.03	0.621	0.022
13	Wong Chuk Hang Road	2	845	0.59	4.58	0.00	4.44	6.10	0.00	0.00	11.76	0.17	0.00	2.15	4.36	6.93	20.20	251.22	0.86	0.06	0.00	0.00	0.28	0.17	0.00	0.00	0.94	0.02	0.00	0.16	0.29	0.34	0.16	2.61	0.03	3.134	0.050
14	Wong Chuk Hang Road	2	440	0.99	7.48	0.00	5.11	7.81	0.00	8.77	9.03	0.32	1.85	4.12	8.38	13.31	19.39	107.21	0.82	0.09	0.00	0.00	0.32	0.22	0.00	0.42	0.72	0.03	0.09	0.31	0.55	0.64	0.16	1.11	0.03	1.946	0.047
15	Wong Chuk Hang Road	2	1810	1.69	5.99	0.30	8.08	10.92	2.45	12.79	4.39	0.31	1.35	3.01	4.07	6.47	4.71	39.09	1.40	0.16	0.00	0.01	0.51	0.30	0.12	0.61	0.35	0.03	0.06	0.22	0.27	0.31	0.04	0.41	0.04	1.070	0.034
16	Nam Long Shan Road	1	1195	2.23	8.22	0.00	5.06	7.91	2.55	8.74	4.41	0.29	1.66	4.37	8.89	17.66	23.85	87.51	0.99	0.31	0.00	0.00	0.37	0.28	0.19	0.58	0.64	0.04	0.09	0.34	0.60	1.07	0.20	1.06	0.05	1.843	0.058
17	Heung Yip Road	1	430	2.23	4.89	0.00	15.14	21.97	3.54	18.21	0.00	0.80	3.46	9.11	6.17	9.82	0.00	0.00	1.37	0.31	0.00	0.00	1.10	0.77	0.26	1.21	0.00	0.11	0.19	0.71	0.42	0.59	0.00	0.00	0.07	0.967	0.057
18	Heung Yip Road	1	535	2.29	4.37	0.00	14.77	22.07	2.84	14.64	0.00	0.96	3.70	7.32	4.96	23.67	0.00	0.00	1.10	0.31	0.00	0.00	1.08	0.77	0.21	0.98	0.00	0.13	0.21	0.57	0.34	1.43	0.00	0.00	0.05	1.027	0.061
19	Heung Yip Road	1	705	2.27	4.64	0.00	14.51	21.78	2.16	14.81	0.00	0.85	4.22	7.41	11.30	17.96	0.00	0.00	1.12	0.31	0.00	0.00	1.06	0.76	0.16	0.99	0.00	0.12	0.23	0.58	0.77	1.08	0.00	0.00	0.05	1.030	0.061
20	Yip Fat St	1	365	2.34	4.49	0.00	14.01	22.65	4.17	21.45	0.00	0.94	4.07	3.58	7.27	11.57	0.00	0.00	1.08	0.32	0.00	0.00	1.02	0.79	0.31	1.43	0.00	0.13	0.23	0.28	0.49	0.70	0.00	0.00	0.05	0.976	0.058
21	Heung Yip Road	1	320	2.42	5.12	0.00	14.53	22.14	0.00	8.16	0.00	0.80	4.64	4.08	8.30	13.19	0.00	0.00	1.23	0.33	0.00	0.00	1.06	0.77	0.00	0.54	0.00	0.11	0.26	0.32	0.56	0.80	0.00	0.00	0.06	0.846	0.048
22	Yip Fat St	1	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
23	Yip Fat St	1	235	2.38	3.98	0.00	15.83	20.10	0.00	11.11	0.00	1.10	4.22	5.56	11.30	17.96	0.00	0.00	0.84	0.33	0.00	0.00	1.15	0.70	0.00	0.74	0.00	0.15	0.23	0.43	0.77	1.08	0.00	0.00	0.04	0.944	0.056
24	Heung Yip Road	1	310	2.41	4.53	0.00	15.00	22.86	0.00	8.42	0.00	0.83	4.79	4.21	8.56	13.62	0.00	0.00	1.27	0.33	0.00	0.00	1.09	0.80	0.00	0.56	0.00	0.12	0.27	0.33	0.58	0.82	0.00	0.00	0.06	0.865	0.050
25	Heung Yip Road	1	435	2.45	5.91	0.00	11.76	19.00	3.50	18.00	0.00	0.79	4.55	3.00	6.10	9.70	0.00	0.00	1.36	0.34	0.00	0.00	0.86	0.66	0.26	1.20	0.00	0.11	0.25	0.23	0.41	0.59	0.00	0.00	0.06	0.861	0.050
26	Heung Yip Road	1	490	2.40	6.20	0.00	11.39	16.87	3.10	15.98	0.00	1.05	4.04	8.00	5.42	8.62	0.00	0.00	1.21	0.33	0.00	0.00	0.83	0.59	0.23	1.06	0.00	0.15	0.23	0.62	0.37	0.52	0.00	0.00	0.06	0.843	0.050
27	Heung Yip Road	1	135	2.37	5.20	0.00	13.78	26.24	0.00	19.33	0.00	0.64	3.67	9.67	0.00	0.00	0.00	0.00	1.46	0.32	0.00	0.00	1.01	0.92	0.00	1.29	0.00	0.09	0.20	0.75	0.00	0.00	0.00	0.00	0.07	0.824	0.046
28	Heung Yip Road	1	155	2.24	4.53	0.00	12.00	22.86	0.00	16.84	0.00	1.11	6.39	8.43	0.00	0.00	0.00	0.00	2.54	0.31	0.00	0.00	0.88	0.80	0.00	1.12	0.00	0.15	0.36	0.65	0.00	0.00	0.00	0.00	0.12	0.769	0.044
29	Heung Yip Road	1	280	2.29	5.01	0.00	13.28	25.31	0.00	9.32	0.00	0.92	5.31	4.66	9.48	15.08	0.00	0.00	1.41	0.31	0.00	0.00	0.97	0.88	0.00	0.62	0.00	0.13	0.30	0.36	0.64	0.91	0.00	0.00	0.07	0.921	0.052
30	Nam Long Shan Road	1	45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.10	0.00	0.00	0.00	0.00	0.00	0.00	536.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.13	0.00	0.00	0.00	0.00	0.00	0.00	6.47	0.00	5.714	0.116
31	Nam Long Shan Road	1	675	2.21	10.74	0.00	5.51	8.75	2.25	3.87	2.34	0.51	2.94	5.80	3.93	12.51	30.16	47.67	0.88	0.30	0.00	0.00	0.40	0.31	0.17	0.26	0.34	0.07	0.16	0.45	0.27	0.75	0.25	0.57	0.04	1.401	0.044
32	Nam Long Shan Road	1	705	2.20	10.95	0.00	5.28	8.38	2.16	11.11	2.24	0.49	2.81	5.56	3.77	11.98	28.87	45.64	0.84	0.30	0.00	0.00	0.38	0.29	0.16	0.74	0.33	0.07	0.16	0.43	0.26	0.72	0.24	0.55	0.04	1.422	0.047
33	Welfare Road	1	50	3.20	9.35	0.00	9.30	23.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.68	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.455	0.019
34	Welfare Road	1	65	3.28	10.79	0.00	7.15	18.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.52	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.394	0.016
35	Shum Wan Road	1	475	1.69	13.29	0.00	3.92	7.46	0.00	0.00	4.43	0.72	3.13	8.25	11.18	26.66	42.85	42.34	0.83	0.23	0.00	0.00	0.29	0.26	0.00	0.00	0.65	0.10	0.17	0.64	0.76	1.61	0.36	0.51	0.04	1.667	0.056
36	Shum Wan Road	1	425	1.70	11.56	0.00	4.38	8.34	0.00	0.00	4.96	0.81	3.50	9.22	12.49	29.80	38.31	47.32	0.93	0.23	0.00	0.00	0.32	0.29	0.00	0.00	0.72	0.11	0.19	0.72	0.85	1.80	0.32	0.57	0.04	1.733	0.062
37	Shum Wan Pier Drive	1	15	3.56	15.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.191	0.005
38	Nam Long Shan Road	1	675	2.25	9.35	0.00	6.89	8.75	2.25	11.60	2.34	0.51	2.94	5.80	3.93	12.51	24.12	47.67	0.88	0.31	0.00	0.00	0.50	0.31	0.17	0.77	0.34	0.07	0.16	0.45	0.27	0.75	0.20	0.57	0.04	1.418	0.049
39	Nam Long Shan Road	1	70	3.05	10.02	0.00	6.64	16.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.46	0.00	0.42	0.00	0.00	0.48	0.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69	0.00	0.940	0.022
40	Nam Long Shan Road	1	70	3.43	6.68	0.00	6.64	16.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.46	0.00	0.47	0.00	0.00	0.48	0.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69	0.00	0.911	0.022
41	Police School Road	1	600	2.27	9.74	0.00	6.20	7.87	0.00	4.35	2.63	0.57	2.48	6.53	4.42	14.07	27.14	53.63	0.98	0.31	0.00	0.00	0.45	0.28	0.00	0.29	0.38	0.08	0.14	0.51	0.30	0.85	0.23	0.65	0.05	1.429	0.045
42#	Police School Road		NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	#VALUE!	#VALUE!

Emission Factors from EMFAC (Type 1 Local Road - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0534	0.4677	0.0000	0.9298	2.3620	3.0413	5.2202	1.0531	0.1717	0.9906	2.6120	5.3097	8.4431	8.1419	8.0439	0.3939
RSP	0.0073	0.0000	0.0000	0.0678	0.0826	0.2259	0.3479	0.1540	0.0239	0.0552	0.2027	0.3598	0.5093	0.0682	0.0970	0.0186

Emission Factors from EMFAC (Type 2 Primary Distributor - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0434	0.3873	0.5498	0.7502	1.7188	2.2129	3.8580	0.9937	0.1403	0.8152	1.8139	3.6875	5.8545	5.6884	5.8966	0.3620
RSP	0.0040	0.0000	0.0201	0.0469	0.0476	0.1122	0.1831	0.0796	0.0141	0.0376	0.1353	0.2436	0.2834	0.0459	0.0613	0.0116

Emission Factors from EMFAC (Type 3 Primary Distributor - 70kph)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0358	0.3140	0.0000	0.7235	1.3918	1.8498	3.2697	1.0767	0.1172	0.7648	1.4044	2.8682	4.5604	4.6627	4.9789	0.3438
RSP	0.0021	0.0000	0.0000	0.0277	0.0379	0.0691	0.1226	0.0577	0.0078	0.0383	0.1362	0.2487	0.2334	0.0469	0.0558	0.0070

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 19-20)

Traffic (Hour: 19-20)

Hour: 19-20				Flow Rate (veh./hr)																% of Total Flow															
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
1	Yip Hing St	1	70	30	10	0	5	5	5	10	0	0	0	0	0	0	0	0	5	42.86	14.29	0.00	7.14	7.14	7.14	14.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.14
2	Tong Bin Lane	1	90	40	15	0	5	5	5	15	0	0	0	0	0	0	0	0	5	44.44	16.67	0.00	5.56	5.56	5.56	16.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.56
3	Tong Bin Lane (near J/Wong Chuk	1	145	65	25	0	10	5	10	25	0	0	0	0	0	0	0	0	5	44.83	17.24	0.00	6.90	3.45	6.90	17.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.45
4	Yip Kan St	1	160	70	30	0	10	5	10	30	0	0	0	0	0	0	0	0	5	43.75	18.75	0.00	6.25	3.13	6.25	18.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.13
5	Wong Chuk Hang Road	2	1420	565	225	0	145	90	15	45	60	35	25	25	15	15	10	95	55	39.79	15.85	0.00	10.21	6.34	1.06	3.17	4.23	2.46	1.76	1.76	1.06	1.06	0.70	6.69	3.87
6	Wong Chuk Hang Road	2	1655	655	255	5	175	105	15	55	75	35	35	25	15	15	10	115	65	39.58	15.41	0.30	10.57	6.34	0.91	3.32	4.53	2.11	2.11	1.51	0.91	0.91	0.60	6.95	3.93
7	Wong Chuk Hang Road	2	680	165	115	0	55	30	5	10	70	15	15	15	10	10	10	140	15	24.26	16.91	0.00	8.09	4.41	0.74	1.47	10.29	2.21	2.21	2.21	1.47	1.47	1.47	20.59	2.21
8	Wong Chuk Hang Road(flyover)	3	965	435	145	0	110	65	15	40	25	20	20	10	10	10	0	20	40	45.08	15.03	0.00	11.40	6.74	1.55	4.15	2.59	2.07	2.07	1.04	1.04	1.04	0.00	2.07	4.15
9	Wong Chuk Hang Road	2	1060	460	195	0	55	30	10	25	40	30	30	25	15	20	25	90	10	43.40	18.40	0.00	5.19	2.83	0.94	2.36	3.77	2.83	2.83	2.36	1.42	1.89	2.36	8.49	0.94
10	Wong Chuk Hang Road	2	795	330	155	0	40	25	10	15	25	25	20	15	15	20	25	65	10	41.51	19.50	0.00	5.03	3.14	1.26	1.89	3.14	3.14	2.52	1.89	1.89	2.52	3.14	8.18	1.26
11	Wong Chuk Hang Road	2	660	275	135	0	30	25	10	15	25	20	15	15	5	10	15	55	10	41.67	20.45	0.00	4.55	3.79	1.52	2.27	3.79	3.03	2.27	2.27	0.76	1.52	2.27	8.33	1.52
12	Wong Chuk Hang Road(flyover)	3	1160	530	175	0	135	80	15	45	30	25	20	15	10	10	0	20	50	45.69	15.09	0.00	11.64	6.90	1.29	3.88	2.59	2.16	1.72	1.29	0.86	0.86	0.00	1.72	4.31
13	Wong Chuk Hang Road	2	705	90	85	0	40	25	0	0	90	10	0	10	10	10	25	295	15	12.77	12.06	0.00	5.67	3.55	0.00	0.00	12.77	1.42	0.00	1.42	1.42	1.42	3.55	41.84	2.13
14	Wong Chuk Hang Road	2	360	85	65	0	25	15	0	5	35	10	10	10	5	5	15	65	10	23.61	18.06	0.00	6.94	4.17	0.00	1.39	9.72	2.78	2.78	2.78	1.39	1.39	4.17	18.06	2.78
15	Wong Chuk Hang Road	2	1515	600	235	5	160	95	15	45	70	35	25	25	15	15	15	105	55	39.60	15.51	0.33	10.56	6.27	0.99	2.97	4.62	2.31	1.65	1.65	0.99	0.99	0.99	6.93	3.63
16	Nam Long Shan Road	1	985	415	170	0	55	30	10	15	45	20	20	15	15	20	25	105	25	42.13	17.26	0.00	5.58	3.05	1.02	1.52	4.57	2.03	2.03	1.52	1.52	2.03	2.54	10.66	2.54
17	Heung Yip Road	1	345	150	35	0	55	30	5	10	0	20	10	10	5	5	0	0	10	43.48	10.14	0.00	15.94	8.70	1.45	2.90	0.00	5.80	2.90	2.90	1.45	1.45	0.00	0.00	2.90
18	Heung Yip Road	1	430	190	40	0	65	40	5	10	0	25	20	10	5	10	0	0	10	44.19	9.30	0.00	15.12	9.30	1.16	2.33	0.00	5.81	4.65	2.33	1.16	2.33	0.00	0.00	2.33
19	Heung Yip Road	1	570	250	55	0	85	50	5	15	0	30	25	15	10	10	0	0	20	43.86	9.65	0.00	14.91	8.77	0.88	2.63	0.00	5.26	4.39	2.63	1.75	1.75	0.00	0.00	3.51
20	Yip Fat St	1	280	130	25	0	40	25	5	10	0	15	10	5	5	5	0	0	5	46.43	8.93	0.00	14.29	8.93	1.79	3.57	0.00	5.36	3.57	1.79	1.79	1.79	0.00	0.00	1.79
21	Heung Yip Road	1	260	125	30	0	40	20	0	5	0	10	10	5	5	5	0	0	5	48.08	11.54	0.00	15.38	7.69	0.00	1.92	0.00	3.85	3.85	1.92	1.92	1.92	0.00	0.00	1.92
22	Yip Fat St	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	Yip Fat St	1	185	85	15	0	30	15	0	5	0	10	5	5	5	5	0	0	5	45.95	8.11	0.00	16.22	8.11	0.00	2.70	0.00	5.41	2.70	2.70	2.70	2.70	0.00	0.00	2.70
24	Heung Yip Road	1	250	120	25	0	40	20	0	5	0	10	10	5	5	5	0	0	5	48.00	10.00	0.00	16.00	8.00	0.00	2.00	0.00	4.00	4.00	2.00	2.00	2.00	0.00	0.00	2.00
25	Heung Yip Road	1	345	165	45	0	40	25	5	10	0	15	15	5	5	5	0	0	10	47.83	13.04	0.00	11.59	7.25	1.45	2.90	0.00	4.35	4.35	1.45	1.45	1.45	0.00	0.00	2.90
26	Heung Yip Road	1	405	190	55	0	50	25	5	10	0	25	15	10	5	5	0	0	10	46.91	13.58	0.00	12.35	6.17	1.23	2.47	0.00	6.17	3.70	2.47	1.23	1.23	0.00	0.00	2.47
27	Heung Yip Road	1	110	50	10	0	15	10	0	5	0	5	5	5	0	0	0	0	5	45.45	9.09	0.00	13.64	9.09	0.00	4.55	0.00	4.55	4.55	4.55	0.00	0.00	0.00	0.00	4.55
28	Heung Yip Road	1	120	60	10	0	15	10	0	5	0	5	5	5	0	0	0	0	5	50.00	8.33	0.00	12.50	8.33	0.00	4.17	0.00	4.17	4.17	4.17	0.00	0.00	0.00	0.00	4.17
29	Heung Yip Road	1	215	100	20	0	30	20	0	5	0	10	10	5	5	5	0	0	5	46.51	9.30	0.00	13.95	9.30	0.00	2.33	0.00	4.65	4.65	2.33	2.33	2.33	0.00	0.00	2.33
30	Nam Long Shan Road	1	35	0	0	0	0	0	0	0	10	0	0	0	0	0	0	25	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.57	0.00	0.00	0.00	0.00	0.00	0.00	71.43	0.00
31	Nam Long Shan Road	1	535	230	120	0	30	20	5	5	10	15	15	10	5	10	15	35	10	42.99	22.43	0.00	5.61	3.74	0.93	0.93	1.87	2.80	2.80	1.87	0.93	1.87	2.80	6.54	1.87
32	Nam Long Shan Road	1	555	240	125	0	30	20	5	10	10	15	15	10	5	10	15	35	10	43.24	22.52	0.00	5.41	3.60	0.90	1.80	1.80	2.70	2.70	1.80	0.90	1.80	2.70	6.31	1.80
33	Welfare Road	1	40	25	5	0	5	5	0	0	0	0	0	0	0	0	0	0	0	62.50	12.50	0.00	12.50	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	Welfare Road	1	55	35	10	0	5	5	0	0	0	0	0	0	0	0	0	0	0	63.64	18.18	0.00	9.09	9.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	Shum Wan Road	1	375	120	100	0	20	10	0	0	15	15	15	15	10	15	15	20	5	32.00	26.67	0.00	5.33	2.67	0.00	0.00	4.00	4.00	4.00	4.00	2.67	4.00	4.00	5.33	1.33
36	Shum Wan Road	1	345	115	80	0	20	10	0	0	15	15	15	15	10	15	10	20	5	33.33	23.19	0.00	5.80	2.90	0.00	0.00	4.35	4.35	4.35	4.35	2.90	4.35	2.90	5.80	1.45
37	Shum Wan Pier Drive	1	35	15	5	0	5	0	0	0	5	0	0	0	0	0	0	5	0	42.86	14.29	0.00	14.29	0.00	0.00	0.00	14.29	0.00	0.00	0.00	0.00	0.00	0.00	14.29	0.00
38	Nam Long Shan Road	1	530	235	105	0	35	20	5	10	10	15	15	10	5	10	10	35	10	44.34	19.81	0.00	6.60	3.77	0.94	1.89	1.89	2.83	2.83	1.89	0.94	1.89	1.89	6.60	1.89
39	Nam Long Shan Road	1	60	35	10	0	5	5	0	0	0	0	0	0	0	0	0	5	0	58.33	16.67	0.00	8.33	8.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.33	0.00
40	Nam Long Shan Road	1	65	40	10	0	5	5	0	0	0	0	0	0	0	0	0	5	0	61.54	15.38	0.00	7.69	7.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.69	0.00
41	Police School Road	1	475	210	100	0	30	15	0	5	10	15	10	10	5	10	10	35	10	44.21	21.05	0.00	6.32	3.16	0.00	1.05	2.11	3.16	2.11	2.11	1.05	2.11	2.11	7.37	2.11
42#	Police School Road		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 19-20)

Emission Factor Calculations (Hour: 00-01)

Hour: 19-20				% of Total Flow x Emission Factor (NOx)																	% of Total Flow x Emission Factor (RSP)																		Composite Emission Factor (g/veh·km)	
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	NOx	RSP
1	Yip Hing St	1	70	2.28	6.67	0.00	6.61	16.69	21.87	74.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.81	0.31	0.00	0.00	0.48	0.58	1.64	4.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	1.313	0.081
2	Tong Bin Lane	1	90	2.36	7.78	0.00	5.14	12.98	17.01	86.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.18	0.32	0.00	0.00	0.37	0.45	1.27	5.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1.343	0.083
3	Tong Bin Lane (near J/Wong Chuk	1	145	2.38	8.05	0.00	6.38	8.06	21.11	89.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.36	0.33	0.00	0.00	0.47	0.28	1.58	5.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	1.371	0.087
4	Yip Kan St	1	160	2.33	8.75	0.00	5.79	7.30	19.13	97.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.23	0.32	0.00	0.00	0.42	0.25	1.43	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	1.422	0.090
5	Wong Chuk Hang Road	2	1420	1.73	6.13	0.00	7.66	10.89	2.34	12.22	4.20	0.35	1.43	3.19	3.89	6.18	4.00	39.43	1.40	0.16	0.00	0.00	0.48	0.30	0.12	0.58	0.34	0.03	0.07	0.24	0.26	0.30	0.03	0.41	0.04	1.050	0.034
6	Wong Chuk Hang Road	2	1655	1.72	5.96	0.17	7.93	10.90	2.00	12.82	4.50	0.30	1.72	2.74	3.34	5.30	3.44	40.95	1.42	0.16	0.00	0.01	0.50	0.30	0.10	0.61	0.36	0.03	0.08	0.20	0.22	0.26	0.03	0.43	0.05	1.052	0.033
7	Wong Chuk Hang Road	2	680	1.05	6.54	0.00	6.06	7.58	1.63	5.67	10.22	0.31	1.80	4.00	5.42	8.61	8.36	121.35	0.80	0.10	0.00	0.00	0.38	0.21	0.08	0.27	0.82	0.03	0.08	0.30	0.36	0.42	0.07	1.26	0.03	1.894	0.044
8	Wong Chuk Hang Road(flyover)	3	965	1.61	4.71	0.00	8.24	9.37	2.87	13.55	2.79	0.24	1.58	1.45	2.97	4.72	0.00	10.31	1.42	0.09	0.00	0.00	0.32	0.26	0.11	0.51	0.15	0.02	0.08	0.14	0.26	0.24	0.00	0.12	0.03	0.659	0.023
9	Wong Chuk Hang Road	2	1060	1.88	7.11	0.00	3.89	4.86	2.09	9.09	3.75	0.40	2.31	4.28	5.22	11.04	13.41	50.04	0.34	0.18	0.00	0.00	0.24	0.13	0.11	0.43	0.30	0.04	0.11	0.32	0.34	0.53	0.11	0.52	0.01	1.197	0.034
10	Wong Chuk Hang Road	2	795	1.80	7.54	0.00	3.77	5.40	2.78	7.28	3.12	0.44	2.05	3.42	6.95	14.72	17.88	48.19	0.46	0.17	0.00	0.00	0.24	0.15	0.14	0.35	0.25	0.04	0.09	0.26	0.46	0.71	0.14	0.50	0.01	1.258	0.035
11	Wong Chuk Hang Road	2	660	1.81	7.91	0.00	3.41	6.51	3.35	8.76	3.76	0.42	1.85	4.12	2.79	8.87	12.92	49.12	0.55	0.17	0.00	0.00	0.21	0.18	0.17	0.42	0.30	0.04	0.09	0.31	0.18	0.43	0.10	0.51	0.02	1.162	0.031
12	Wong Chuk Hang Road(flyover)	3	1160	1.63	4.73	0.00	8.42	9.59	2.39	12.68	2.78	0.25	1.32	1.82	2.47	3.93	0.00	8.58	1.48	0.09	0.00	0.00	0.32	0.26	0.09	0.48	0.15	0.02	0.07	0.18	0.21	0.20	0.00	0.10	0.03	0.621	0.022
13	Wong Chuk Hang Road	2	705	0.55	4.66	0.00	4.25	6.09	0.00	0.00	12.68	0.20	0.00	2.57	5.23	8.30	20.16	246.63	0.77	0.05	0.00	0.00	0.27	0.17	0.00	0.00	1.02	0.02	0.00	0.19	0.35	0.40	0.16	2.56	0.02	3.121	0.052
14	Wong Chuk Hang Road	2	360	1.02	6.98	0.00	5.21	7.16	0.00	5.36	9.65	0.39	2.26	5.04	5.12	8.13	23.69	106.42	1.01	0.10	0.00	0.00	0.33	0.20	0.00	0.25	0.77	0.04	0.10	0.38	0.34	0.39	0.19	1.11	0.03	1.874	0.042
15	Wong Chuk Hang Road	2	1515	1.72	6.00	0.18	7.92	10.77	2.19	11.45	4.59	0.32	1.34	2.99	3.65	5.79	5.63	40.85	1.31	0.16	0.00	0.01	0.50	0.30	0.11	0.54	0.37	0.03	0.06	0.22	0.24	0.28	0.05	0.42	0.04	1.067	0.033
16	Nam Long Shan Road	1	985	2.24	8.06	0.00	5.17	7.12	3.11	7.93	4.80	0.35	2.01	3.97	8.08	17.13	20.65	85.07	1.00	0.31	0.00	0.00	0.38	0.25	0.23	0.53	0.70	0.05	0.11	0.31	0.55	1.03	0.17	1.02	0.05	1.767	0.057
17	Heung Yip Road	1	345	2.31	4.74	0.00	14.76	20.31	4.44	15.10	0.00	1.00	2.87	7.56	7.69	12.23	0.00	0.00	1.14	0.32	0.00	0.00	1.08	0.71	0.33	1.01	0.00	0.14	0.16	0.59	0.52	0.74	0.00	0.00	0.05	0.941	0.056
18	Heung Yip Road	1	430	2.35	4.34	0.00	13.99	21.73	3.56	12.11	0.00	1.00	4.61	6.06	6.17	19.62	0.00	0.00	0.91	0.32	0.00	0.00	1.02	0.76	0.27	0.81	0.00	0.14	0.26	0.47	0.42	1.18	0.00	0.00	0.04	0.965	0.057
19	Heung Yip Road	1	570	2.33	4.50	0.00	13.80	20.49	2.69	13.71	0.00	0.91	4.35	6.86	9.31	14.80	0.00	0.00	1.38	0.32	0.00	0.00	1.01	0.71	0.20	0.91	0.00	0.13	0.24	0.53	0.63	0.89	0.00	0.00	0.07	0.951	0.056
20	Yip Fat St	1	280	2.47	4.17	0.00	13.22	20.86	5.47	18.60	0.00	0.92	3.54	4.66	9.48	15.07	0.00	0.00	0.70	0.34	0.00	0.00	0.96	0.73	0.41	1.24	0.00	0.13	0.20	0.36	0.64	0.91	0.00	0.00	0.03	0.992	0.059
21	Heung Yip Road	1	260	2.56	5.39	0.00	14.24	17.97	0.00	10.02	0.00	0.66	3.81	5.01	10.21	16.23	0.00	0.00	0.76	0.35	0.00	0.00	1.04	0.63	0.00	0.67	0.00	0.09	0.21	0.39	0.69	0.98	0.00	0.00	0.04	0.868	0.051
22	Yip Fat St	1	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
23	Yip Fat St	1	185	2.44	3.78	0.00	15.01	18.94	0.00	14.08	0.00	0.93	2.68	7.05	14.34	22.81	0.00	0.00	1.06	0.33	0.00	0.00	1.09	0.66	0.00	0.94	0.00	0.13	0.15	0.55	0.97	1.38	0.00	0.00	0.05	1.031	0.062
24	Heung Yip Road	1	250	2.55	4.67	0.00	14.81	18.69	0.00	10.42	0.00	0.69	3.96	5.21	10.61	16.88	0.00	0.00	0.79	0.35	0.00	0.00	1.08	0.65	0.00	0.69	0.00	0.10	0.22	0.40	0.72	1.02	0.00	0.00	0.04	0.893	0.053
25	Heung Yip Road	1	345	2.54	6.09	0.00	10.73	16.93	4.44	15.10	0.00	0.75	4.31	3.78	7.69	12.23	0.00	0.00	1.14	0.35	0.00	0.00	0.78	0.59	0.33	1.01	0.00	0.10	0.24	0.29	0.52	0.74	0.00	0.00	0.05	0.857	0.050
26	Heung Yip Road	1	405	2.50	6.34	0.00	11.43	14.42	3.78	12.86	0.00	1.06	3.67	6.44	6.55	10.42	0.00	0.00	0.97	0.34	0.00	0.00	0.83	0.50	0.28	0.86	0.00	0.15	0.20	0.50	0.44	0.63	0.00	0.00	0.05	0.804	0.048
27	Heung Yip Road	1	110	2.42	4.24	0.00	12.62	21.24	0.00	23.67	0.00	0.78	4.50	11.85	0.00	0.00	0.00	0.00	1.79	0.33	0.00	0.00	0.92	0.74	0.00	1.58	0.00	0.11	0.25	0.92	0.00	0.00	0.00	0.00	0.08	0.831	0.049
28	Heung Yip Road	1	120	2.66	3.89	0.00	11.57	19.47	0.00	21.70	0.00	0.72	4.13	10.86	0.00	0.00	0.00	0.00	1.64	0.36	0.00	0.00	0.84	0.68	0.00	1.45	0.00	0.10	0.23	0.84	0.00	0.00	0.00	0.00	0.08	0.766	0.046
29	Heung Yip Road	1	215	2.47	4.34	0.00	12.92	21.73	0.00	12.11	0.00	0.80	4.61	6.06	12.34	19.62	0.00	0.00	0.91	0.34	0.00	0.00	0.94	0.76	0.00	0.81	0.00	0.11	0.26	0.47	0.84	1.18	0.00	0.00	0.04	0.979	0.057
30	Nam Long Shan Road	1	35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.04	0.00	0.00	0.00	0.00	0.00	0.00	570.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.37	0.00	0.00	0.00	0.00	0.00	0.00	6.86	0.00	6.001	0.112
31	Nam Long Shan Road	1	535	2.29	10.47	0.00	5.19	8.73	2.86	4.87	1.97	0.48	2.78	4.87	4.96	15.77	22.82	52.21	0.73	0.31	0.00	0.00	0.38	0.30	0.21	0.32	0.29	0.07	0.15	0.38	0.34	0.95	0.19	0.63	0.03	1.410	0.046
32	Nam Long Shan Road	1	555	2.30	10.51	0.00	5.00	8.42	2.76	9.38	1.89	0.47	2.68	4.70	4.78	15.20	21.99	50.33	0.71	0.31	0.00	0.00	0.36	0.29	0.21	0.62	0.28	0.06	0.15	0.36	0.32	0.92	0.18	0.61	0.03	1.411	0.047
33	Welfare Road	1	40	3.32	5.83	0.00	11.57	29.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.84	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.499	0.023
34	Welfare Road	1	55	3.38	8.49	0.00	8.42	21.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.61	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.415	0.018
35	Shum Wan Road	1	375	1.70	12.45	0.00	4.94	6.23	0.00	0.00	4.21	0.69	3.96	10.43	14.15	33.75	32.55	42.56	0.52	0.23	0.00	0.00	0.36	0.22	0.00	0.00	0.61	0.10	0.22	0.81	0.96	2.04	0.27	0.51	0.02	1.681	0.064
36	Shum Wan Road	1	345	1.77	10.82	0.00	5.37	6.77	0.00	0.00	4.57	0.75	4.31	11.34	15.38	36.69	23.59	46.26	0.57	0.24	0.00	0.00	0.39	0.24	0.00	0.00	0.67	0.10	0.24	0.88	1.04	2.21	0.20	0.56	0.03	1.682	0.068
37	Shum Wan Pier Drive	1	35	2.28	6.67	0.00	13.22	0.00	0.00	0.00	15.02	0.00	0.00	0.00	0.00	0.00	0.00	114.01	0.00	0.31	0.00	0.00	0.96	0.00	0.00	0.00	2.19	0.00	0.00	0.00	0.00	0.00	0.00	1.37	0.00	1.512	0.048
38	Nam Long Shan Road	1	530	2.36	9.25	0.00	6.11	8.82	2.89	9.83	1.98	0.49	2.80	4.92	5.01	15.92	15.35	52.70	0.74	0.32	0.00	0.00	0.45	0.31	0.22	0.65	0.29	0.07	0.16	0.38	0.34	0.96	0.13	0.63	0.04	1.392	0.049
39	Nam Long Shan Road	1	60	3.10	7.78	0.00	7.71	19.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	66.50	0.00	0.42	0.00	0.00	0.56	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.00	1.046	0.025
40	Nam Long Shan Road	1	65	3.27	7.18	0.00	7.12	17.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	61.39	0.00	0.45	0.00	0.00	0.52	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.74	0.00	0.969	0.023
41	Police School Road	1	475	2.35	9.83	0.00	5.85	7.38	0.00	5.48	2.21	0.54	2.09	5.49	5.59	17.76	17.13	58.80	0.83	0.32	0.00	0.00	0.43	0.26	0.00	0.37	0.32	0.08	0.12	0.43	0.38	1.07	0.14	0.71	0.04	1.413	0.047
42#	Police School Road		NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	#VALUE!	#VALUE!

Emission Factors from EMFAC (Type 1 Local Road - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0532	0.4668	0.0000	0.9257	2.3362	3.0613	5.2083	1.0514	0.1721	0.9909	2.6075	5.3066	8.4382	8.1377	7.9805	0.3930
RSP	0.0073	0.0000	0.0000	0.0675	0.0813	0.2290	0.3468	0.1530	0.0239	0.0552	0.2025	0.3597	0.5092	0.0682	0.0961	0.0186

Emission Factors from EMFAC (Type 2 Primary Distributor - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0434	0.3868	0.5495	0.7499	1.7180	2.2119	3.8563	0.9931	0.1402	0.8148	1.8130	3.6858	5.8518	5.6857	5.8939	0.3618
RSP	0.0040	0.0000	0.0201	0.0469	0.0476	0.1122	0.1831	0.0796	0.0141	0.0376	0.1353	0.2436	0.2834	0.0459	0.0613	0.0116

Emission Factors from EMFAC (Type 3 Primary Distributor - 70kph)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0357	0.3135	0.0000	0.7232	1.3912	1.8490	3.2682	1.0761	0.1171	0.7643	1.4037	2.8669	4.5583	0.0000	4.9766	0.3436
RSP	0.0021	0.0000	0.0000	0.0277	0.0379	0.0691	0.1226	0.0577	0.0078	0.0383	0.1362	0.2487	0.2334	0.0000	0.0558	0.0070

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 20-21)

Traffic (Hour: 20-21)

Hour: 20-21				Flow Rate (veh./hr)																% of Total Flow															
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
1	Yip Hing St	1	60	20	10	0	5	5	5	10	0	0	0	0	0	0	0	0	5	33.33	16.67	0.00	8.33	8.33	8.33	16.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.33
2	Tong Bin Lane	1	70	30	10	0	5	5	5	10	0	0	0	0	0	0	0	0	5	42.86	14.29	0.00	7.14	7.14	7.14	14.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.14
3	Tong Bin Lane (near J/Wong Chuk	1	120	50	20	0	10	5	10	20	0	0	0	0	0	0	0	0	5	41.67	16.67	0.00	8.33	4.17	8.33	16.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.17
4	Yip Kan St	1	120	50	20	0	10	5	10	20	0	0	0	0	0	0	0	0	5	41.67	16.67	0.00	8.33	4.17	8.33	16.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.17
5	Wong Chuk Hang Road	2	1145	460	185	0	115	70	10	35	50	30	20	20	10	10	5	80	45	40.17	16.16	0.00	10.04	6.11	0.87	3.06	4.37	2.62	1.75	1.75	0.87	0.87	0.44	6.99	3.93
6	Wong Chuk Hang Road	2	1325	535	210	5	140	80	10	40	65	30	25	20	10	10	5	90	50	40.38	15.85	0.38	10.57	6.04	0.75	3.02	4.91	2.26	1.89	1.51	0.75	0.75	0.38	6.79	3.77
7	Wong Chuk Hang Road	2	555	140	90	0	45	25	5	5	55	15	15	15	5	5	5	115	15	25.23	16.22	0.00	8.11	4.50	0.90	0.90	9.91	2.70	2.70	2.70	0.90	0.90	0.90	20.72	2.70
8	Wong Chuk Hang Road(flyover)	3	760	350	120	0	90	50	10	30	20	15	15	5	5	5	0	15	30	46.05	15.79	0.00	11.84	6.58	1.32	3.95	2.63	1.97	1.97	0.66	0.66	0.66	0.00	1.97	3.95
9	Wong Chuk Hang Road	2	865	380	170	0	45	25	5	20	30	25	25	15	10	15	20	75	5	43.93	19.65	0.00	5.20	2.89	0.58	2.31	3.47	2.89	2.89	1.73	1.16	1.73	2.31	8.67	0.58
10	Wong Chuk Hang Road	2	650	280	135	0	30	20	5	15	20	15	15	10	10	15	20	55	5	43.08	20.77	0.00	4.62	3.08	0.77	2.31	3.08	2.31	2.31	1.54	1.54	2.31	3.08	8.46	0.77
11	Wong Chuk Hang Road	2	545	230	120	0	25	15	5	15	20	15	10	10	5	10	15	45	5	42.20	22.02	0.00	4.59	2.75	0.92	2.75	3.67	2.75	1.83	1.83	0.92	1.83	2.75	8.26	0.92
12	Wong Chuk Hang Road(flyover)	3	925	430	145	0	105	65	10	35	25	20	15	10	5	5	0	15	40	46.49	15.68	0.00	11.35	7.03	1.08	3.78	2.70	2.16	1.62	1.08	0.54	0.54	0.00	1.62	4.32
13	Wong Chuk Hang Road	2	545	70	65	0	30	15	0	0	75	10	0	5	5	5	20	235	10	12.84	11.93	0.00	5.50	2.75	0.00	0.00	13.76	1.83	0.00	0.92	0.92	0.92	3.67	43.12	1.83
14	Wong Chuk Hang Road	2	280	70	55	0	20	10	0	5	30	5	5	5	5	5	10	50	5	25.00	19.64	0.00	7.14	3.57	0.00	1.79	10.71	1.79	1.79	1.79	1.79	1.79	3.57	17.86	1.79
15	Wong Chuk Hang Road	2	1220	490	195	5	125	75	10	35	55	30	20	20	10	10	10	85	45	40.16	15.98	0.41	10.25	6.15	0.82	2.87	4.51	2.46	1.64	1.64	0.82	0.82	0.82	6.97	3.69
16	Nam Long Shan Road	1	810	345	150	0	40	25	5	15	35	15	15	15	10	15	20	85	20	42.59	18.52	0.00	4.94	3.09	0.62	1.85	4.32	1.85	1.85	1.85	1.23	1.85	2.47	10.49	2.47
17	Heung Yip Road	1	275	115	25	0	40	25	5	10	0	15	10	10	5	5	0	0	10	41.82	9.09	0.00	14.55	9.09	1.82	3.64	0.00	5.45	3.64	3.64	1.82	1.82	0.00	0.00	3.64
18	Heung Yip Road	1	335	150	30	0	45	30	5	10	0	15	15	10	5	10	0	0	10	44.78	8.96	0.00	13.43	8.96	1.49	2.99	0.00	4.48	4.48	2.99	1.49	2.99	0.00	0.00	2.99
19	Heung Yip Road	1	435	195	40	0	60	35	5	10	0	25	20	10	10	10	0	0	15	44.83	9.20	0.00	13.79	8.05	1.15	2.30	0.00	5.75	4.60	2.30	2.30	2.30	0.00	0.00	3.45
20	Yip Fat St	1	225	100	20	0	30	20	5	10	0	10	10	5	5	5	0	0	5	44.44	8.89	0.00	13.33	8.89	2.22	4.44	0.00	4.44	4.44	2.22	2.22	2.22	0.00	0.00	2.22
21	Heung Yip Road	1	210	100	20	0	30	15	0	5	0	10	10	5	5	5	0	0	5	47.62	9.52	0.00	14.29	7.14	0.00	2.38	0.00	4.76	4.76	2.38	2.38	2.38	0.00	0.00	2.38
22	Yip Fat St	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	Yip Fat St	1	155	65	15	0	25	10	0	5	0	10	5	5	5	5	0	0	5	41.94	9.68	0.00	16.13	6.45	0.00	3.23	0.00	6.45	3.23	3.23	3.23	3.23	0.00	0.00	3.23
24	Heung Yip Road	1	200	95	15	0	30	15	0	5	0	10	10	5	5	5	0	0	5	47.50	7.50	0.00	15.00	7.50	0.00	2.50	0.00	5.00	5.00	2.50	2.50	2.50	0.00	0.00	2.50
25	Heung Yip Road	1	275	130	35	0	30	20	5	10	0	10	10	5	5	5	0	0	10	47.27	12.73	0.00	10.91	7.27	1.82	3.64	0.00	3.64	3.64	1.82	1.82	1.82	0.00	0.00	3.64
26	Heung Yip Road	1	320	150	40	0	35	20	5	10	0	15	15	10	5	5	0	0	10	46.88	12.50	0.00	10.94	6.25	1.56	3.13	0.00	4.69	4.69	3.13	1.56	1.56	0.00	0.00	3.13
27	Heung Yip Road	1	95	40	10	0	10	10	0	5	0	5	5	5	0	0	0	0	5	42.11	10.53	0.00	10.53	10.53	0.00	5.26	0.00	5.26	5.26	5.26	0.00	0.00	0.00	0.00	5.26
28	Heung Yip Road	1	110	50	10	0	15	10	0	5	0	5	5	5	0	0	0	0	5	45.45	9.09	0.00	13.64	9.09	0.00	4.55	0.00	4.55	4.55	4.55	0.00	0.00	0.00	0.00	4.55
29	Heung Yip Road	1	175	75	15	0	25	15	0	5	0	10	10	5	5	5	0	0	5	42.86	8.57	0.00	14.29	8.57	0.00	2.86	0.00	5.71	5.71	2.86	2.86	2.86	0.00	0.00	2.86
30	Nam Long Shan Road	1	25	0	0	0	0	0	0	0	10	0	0	0	0	0	0	15	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.00	0.00	0.00	0.00	0.00	0.00	0.00	60.00	0.00
31	Nam Long Shan Road	1	455	190	105	0	20	15	5	5	10	15	15	10	5	10	15	25	10	41.76	23.08	0.00	4.40	3.30	1.10	1.10	2.20	3.30	3.30	2.20	1.10	2.20	3.30	5.49	2.20
32	Nam Long Shan Road	1	455	190	105	0	20	15	5	10	10	15	10	10	5	10	15	25	10	41.76	23.08	0.00	4.40	3.30	1.10	2.20	2.20	3.30	2.20	2.20	1.10	2.20	3.30	5.49	2.20
33	Welfare Road	1	35	20	5	0	5	5	0	0	0	0	0	0	0	0	0	0	0	57.14	14.29	0.00	14.29	14.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	Welfare Road	1	45	25	10	0	5	5	0	0	0	0	0	0	0	0	0	0	0	55.56	22.22	0.00	11.11	11.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	Shum Wan Road	1	340	110	95	0	15	10	0	0	15	15	10	10	10	15	15	15	5	32.35	27.94	0.00	4.41	2.94	0.00	0.00	4.41	4.41	2.94	2.94	2.94	4.41	4.41	4.41	1.47
36	Shum Wan Road	1	300	95	75	0	15	10	0	0	15	15	10	10	10	15	10	15	5	31.67	25.00	0.00	5.00	3.33	0.00	0.00	5.00	5.00	3.33	3.33	3.33	5.00	3.33	5.00	1.67
37	Shum Wan Pier Drive	1	85	30	10	0	5	5	0	0	5	5	5	5	5	5	0	5	0	35.29	11.76	0.00	5.88	5.88	0.00	0.00	5.88	5.88	5.88	5.88	5.88	5.88	0.00	5.88	0.00
38	Nam Long Shan Road	1	440	185	90	0	25	15	5	10	10	15	15	10	5	10	10	25	10	42.05	20.45	0.00	5.68	3.41	1.14	2.27	2.27	3.41	3.41	2.27	1.14	2.27	2.27	5.68	2.27
39	Nam Long Shan Road	1	55	30	10	0	5	5	0	0	0	0	0	0	0	0	0	5	0	54.55	18.18	0.00	9.09	9.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.09	0.00
40	Nam Long Shan Road	1	55	35	5	0	5	5	0	0	0	0	0	0	0	0	0	5	0	63.64	9.09	0.00	9.09	9.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.09	0.00
41	Police School Road	1	395	170	85	0	20	10	0	5	10	15	10	10	5	10	10	25	10	43.04	21.52	0.00	5.06	2.53	0.00	1.27	2.53	3.80	2.53	2.53	1.27	2.53	2.53	6.33	2.53
42#	Police School Road		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 20-21)

Emission Factor Calculations (Hour: 00-01)

Hour: 20-21				% of Total Flow x Emission Factor (NOx)																	% of Total Flow x Emission Factor (RSP)																		Composite Emission Factor (g/veh·km)	
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	NOx	RSP
1	Yip Hing St	1	60	1.73	7.68	0.00	7.46	18.40	22.14	77.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.24	0.23	0.00	0.00	0.54	0.62	1.47	4.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	1.380	0.077
2	Tong Bin Lane	1	70	2.23	6.59	0.00	6.40	15.77	18.97	66.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.78	0.29	0.00	0.00	0.46	0.53	1.26	4.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	1.190	0.067
3	Tong Bin Lane (near J/Wong Chuk	1	120	2.17	7.68	0.00	7.46	9.20	22.14	77.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.62	0.29	0.00	0.00	0.54	0.31	1.47	4.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	1.276	0.074
4	Yip Kan St	1	120	2.17	7.68	0.00	7.46	9.20	22.14	77.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.62	0.29	0.00	0.00	0.54	0.31	1.47	4.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	1.276	0.074
5	Wong Chuk Hang Road	2	1145	1.74	6.24	0.00	7.52	10.49	1.93	11.78	4.33	0.37	1.42	3.16	3.22	5.11	2.48	41.14	1.37	0.16	0.00	0.00	0.47	0.29	0.10	0.56	0.35	0.04	0.07	0.24	0.21	0.25	0.02	0.43	0.03	1.023	0.032
6	Wong Chuk Hang Road	2	1325	1.75	6.12	0.21	7.92	10.36	1.67	11.63	4.87	0.32	1.54	2.73	2.78	4.41	2.14	40.00	1.31	0.16	0.00	0.01	0.50	0.29	0.08	0.55	0.39	0.03	0.07	0.20	0.18	0.21	0.02	0.42	0.03	0.998	0.032
7	Wong Chuk Hang Road	2	555	1.09	6.26	0.00	6.07	7.73	1.99	3.47	9.83	0.38	2.20	4.90	3.32	5.27	5.12	122.02	0.94	0.10	0.00	0.00	0.38	0.21	0.10	0.16	0.79	0.04	0.10	0.37	0.22	0.26	0.04	1.27	0.02	1.806	0.041
8	Wong Chuk Hang Road(flyover)	3	760	1.64	4.94	0.00	8.56	9.14	2.43	12.89	2.83	0.23	1.51	0.92	1.88	3.00	0.00	9.81	1.35	0.10	0.00	0.00	0.33	0.25	0.09	0.48	0.15	0.02	0.08	0.09	0.16	0.15	0.00	0.11	0.03	0.611	0.020
9	Wong Chuk Hang Road	2	865	1.90	7.59	0.00	3.90	4.96	1.28	8.91	3.44	0.40	2.35	3.14	4.26	10.14	13.13	51.06	0.20	0.18	0.00	0.00	0.24	0.14	0.06	0.42	0.28	0.04	0.11	0.23	0.28	0.49	0.11	0.53	0.00	1.167	0.031
10	Wong Chuk Hang Road	2	650	1.87	8.02	0.00	3.46	5.28	1.70	8.89	3.05	0.32	1.88	2.79	5.67	13.49	17.48	49.83	0.27	0.17	0.00	0.00	0.22	0.15	0.09	0.42	0.24	0.03	0.09	0.21	0.37	0.65	0.14	0.52	0.01	1.240	0.033
11	Wong Chuk Hang Road	2	545	1.83	8.50	0.00	3.44	4.72	2.03	10.60	3.64	0.39	1.49	3.32	3.38	10.73	15.64	48.62	0.32	0.17	0.00	0.00	0.22	0.13	0.10	0.50	0.29	0.04	0.07	0.25	0.22	0.52	0.13	0.51	0.01	1.187	0.032
12	Wong Chuk Hang Road(flyover)	3	925	1.66	4.91	0.00	8.20	9.77	2.00	12.36	2.90	0.25	1.24	1.52	1.55	2.46	0.00	8.06	1.48	0.10	0.00	0.00	0.31	0.27	0.07	0.46	0.16	0.02	0.06	0.15	0.13	0.13	0.00	0.09	0.03	0.584	0.020
13	Wong Chuk Hang Road	2	545	0.56	4.61	0.00	4.12	4.72	0.00	0.00	13.65	0.26	0.00	1.66	3.38	5.36	20.85	253.92	0.64	0.05	0.00	0.00	0.26	0.13	0.00	0.00	1.10	0.03	0.00	0.12	0.22	0.26	0.17	2.64	0.02	3.137	0.050
14	Wong Chuk Hang Road	2	280	1.08	7.59	0.00	5.35	6.13	0.00	6.88	10.63	0.25	1.45	3.23	6.58	10.44	20.29	105.16	0.62	0.10	0.00	0.00	0.34	0.17	0.00	0.33	0.85	0.03	0.07	0.24	0.44	0.51	0.16	1.09	0.01	1.857	0.043
15	Wong Chuk Hang Road	2	1220	1.74	6.17	0.22	7.68	10.55	1.81	11.05	4.47	0.34	1.33	2.97	3.02	4.79	4.66	41.03	1.28	0.16	0.00	0.01	0.48	0.29	0.09	0.53	0.36	0.03	0.06	0.22	0.20	0.23	0.04	0.43	0.03	1.031	0.032
16	Nam Long Shan Road	1	810	2.22	8.54	0.00	4.42	6.81	1.64	8.59	4.53	0.31	1.79	4.64	6.36	15.30	19.84	81.34	0.96	0.29	0.00	0.00	0.32	0.23	0.11	0.53	0.65	0.04	0.10	0.36	0.43	0.92	0.17	0.97	0.04	1.673	0.052
17	Heung Yip Road	1	275	2.18	4.19	0.00	13.02	20.07	4.83	16.87	0.00	0.92	3.51	9.12	9.36	15.02	0.00	0.00	1.41	0.29	0.00	0.00	0.93	0.68	0.32	1.03	0.00	0.13	0.19	0.71	0.63	0.90	0.00	0.00	0.06	1.005	0.059
18	Heung Yip Road	1	335	2.33	4.13	0.00	12.03	19.77	3.96	13.85	0.00	0.75	4.32	7.49	7.68	24.66	0.00	0.00	1.16	0.31	0.00	0.00	0.86	0.67	0.26	0.85	0.00	0.10	0.24	0.58	0.52	1.48	0.00	0.00	0.05	1.021	0.059
19	Heung Yip Road	1	435	2.33	4.24	0.00	12.35	17.76	3.05	10.67	0.00	0.97	4.44	5.77	11.83	18.99	0.00	0.00	1.34	0.31	0.00	0.00	0.89	0.60	0.20	0.65	0.00	0.13	0.24	0.45	0.80	1.14	0.00	0.00	0.06	0.937	0.055
20	Yip Fat St	1	225	2.31	4.10	0.00	11.94	19.62	5.90	20.62	0.00	0.75	4.29	5.57	11.44	18.36	0.00	0.00	0.86	0.31	0.00	0.00	0.86	0.66	0.39	1.26	0.00	0.10	0.24	0.43	0.78	1.10	0.00	0.00	0.04	1.058	0.062
21	Heung Yip Road	1	210	2.48	4.39	0.00	12.79	15.77	0.00	11.05	0.00	0.80	4.60	5.97	12.26	19.67	0.00	0.00	0.93	0.33	0.00	0.00	0.92	0.53	0.00	0.68	0.00	0.11	0.25	0.46	0.83	1.18	0.00	0.00	0.04	0.907	0.053
22	Yip Fat St	1	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
23	Yip Fat St	1	155	2.18	4.46	0.00	14.44	14.24	0.00	14.97	0.00	1.09	3.11	8.09	16.61	26.65	0.00	0.00	1.26	0.29	0.00	0.00	1.04	0.48	0.00	0.92	0.00	0.15	0.17	0.63	1.13	1.60	0.00	0.00	0.06	1.071	0.064
24	Heung Yip Road	1	200	2.47	3.46	0.00	13.43	16.56	0.00	11.60	0.00	0.84	4.83	6.27	12.87	20.65	0.00	0.00	0.97	0.33	0.00	0.00	0.96	0.56	0.00	0.71	0.00	0.11	0.27	0.49	0.87	1.24	0.00	0.00	0.04	0.940	0.056
25	Heung Yip Road	1	275	2.46	5.87	0.00	9.77	16.05	4.83	16.87	0.00	0.61	3.51	4.56	9.36	15.02	0.00	0.00	1.41	0.33	0.00	0.00	0.70	0.54	0.32	1.03	0.00	0.08	0.19	0.35	0.63	0.90	0.00	0.00	0.06	0.903	0.051
26	Heung Yip Road	1	320	2.44	5.76	0.00	9.79	13.80	4.15	14.50	0.00	0.79	4.53	7.84	8.04	12.91	0.00	0.00	1.22	0.32	0.00	0.00	0.70	0.47	0.28	0.89	0.00	0.11	0.25	0.61	0.55	0.77	0.00	0.00	0.05	0.858	0.050
27	Heung Yip Road	1	95	2.19	4.85	0.00	9.43	23.24	0.00	24.42	0.00	0.89	5.08	13.20	0.00	0.00	0.00	0.00	2.05	0.29	0.00	0.00	0.68	0.79	0.00	1.49	0.00	0.12	0.28	1.02	0.00	0.00	0.00	0.00	0.09	0.853	0.048
28	Heung Yip Road	1	110	2.37	4.19	0.00	12.21	20.07	0.00	21.09	0.00	0.77	4.39	11.40	0.00	0.00	0.00	0.00	1.77	0.31	0.00	0.00	0.88	0.68	0.00	1.29	0.00	0.10	0.24	0.88	0.00	0.00	0.00	0.00	0.08	0.782	0.045
29	Heung Yip Road	1	175	2.23	3.95	0.00	12.79	18.92	0.00	13.26	0.00	0.96	5.52	7.17	14.71	23.60	0.00	0.00	1.11	0.29	0.00	0.00	0.92	0.64	0.00	0.81	0.00	0.13	0.30	0.56	1.00	1.41	0.00	0.00	0.05	1.042	0.061
30	Nam Long Shan Road	1	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	41.90	0.00	0.00	0.00	0.00	0.00	0.00	465.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.02	0.00	0.00	0.00	0.00	0.00	0.00	5.56	0.00	5.070	0.116
31	Nam Long Shan Road	1	455	2.17	10.64	0.00	3.94	7.28	2.92	5.10	2.30	0.56	3.18	5.51	5.66	18.16	26.49	42.59	0.86	0.29	0.00	0.00	0.28	0.25	0.19	0.31	0.33	0.08	0.17	0.43	0.38	1.09	0.22	0.51	0.04	1.373	0.046
32	Nam Long Shan Road	1	455	2.17	10.64	0.00	3.94	7.28	2.92	10.20	2.30	0.56	2.12	5.51	5.66	18.16	26.49	42.59	0.86	0.29	0.00	0.00	0.28	0.25	0.19	0.62	0.33	0.08	0.12	0.43	0.38	1.09	0.22	0.51	0.04	1.414	0.048
33	Welfare Road	1	35	2.97	6.59	0.00	12.79	31.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.92	1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.539	0.024
34	Welfare Road	1	45	2.89	10.25	0.00	9.95	24.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.71	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.476	0.019
35	Shum Wan Road	1	340	1.68	12.88	0.00	3.95	6.49	0.00	0.00	4.62	0.74	2.84	7.38	15.14	36.44	35.46	34.20	0.57	0.22	0.00	0.00	0.28	0.22	0.00	0.00	0.66	0.10	0.16	0.57	1.03	2.18	0.30	0.41	0.03	1.624	0.062
36	Shum Wan Road	1	300	1.65	11.53	0.00	4.48	7.36	0.00	0.00	5.24	0.84	3.22	8.36	17.16	41.30	26.79	38.76	0.65	0.22	0.00	0.00	0.32	0.25	0.00	0.00	0.75	0.11	0.18	0.65	1.16	2.47	0.22	0.46	0.03	1.673	0.068
37	Shum Wan Pier Drive	1	85	1.84	5.42	0.00	5.27	12.99	0.00	0.00	6.16	0.99	5.68	14.75	30.28	48.59	0.00	45.60	0.00	0.24	0.00	0.00	0.38	0.44	0.00	0.00	0.89	0.14	0.31	1.14	2.05	2.91	0.00	0.55	0.00	1.776	0.090
38	Nam Long Shan Road	1	440	2.19	9.43	0.00	5.09	7.53	3.02	10.54	2.38	0.57	3.29	5.70	5.85	18.77	18.26	44.04	0.88	0.29	0.00	0.00	0.36	0.25	0.20	0.65	0.34	0.08	0.18	0.44	0.40	1.12	0.15	0.53	0.04	1.376	0.050
39	Nam Long Shan Road	1	55	2.84	8.38	0.00	8.14	20.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	70.47	0.00	0.38	0.00	0.00	0.58	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.84	0.00	1.099	0.025
40	Nam Long Shan Road	1	55	3.31	4.19	0.00	8.14	20.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	70.47	0.00	0.44	0.00	0.00	0.58	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.84	0.00	1.062	0.025
41	Police School Road	1	395	2.24	9.92	0.00	4.53	5.59	0.00	5.87	2.65	0.64	2.44	6.35	6.52	20.91	20.35	49.06	0.99	0.30	0.00	0.00	0.33	0.19	0.00	0.36	0.38	0.09	0.13	0.49	0.44	1.25	0.17	0.59	0.04	1.381	0.048
42#	Police School Road		NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	#VALUE!	#VALUE!

Emission Factors from EMFAC (Type 1 Local Road - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0520	0.4611	0.0000	0.8955	2.2075	2.6563	4.6394	1.0474	0.1686	0.9653	2.5080	5.1481	8.2607	8.0365	7.7516	0.3891
RSP	0.0069	0.0000	0.0000	0.0642	0.0747	0.1770	0.2839	0.1506	0.0230	0.0530	0.1944	0.3491	0.4946	0.0674	0.0927	0.0175

Emission Factors from EMFAC (Type 2 Primary Distributor - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0433	0.3862	0.5489	0.7492	1.7165	2.2099	3.8529	0.9920	0.1401	0.8140	1.8114	3.6826	5.8466	5.6808	5.8888	0.3476
RSP	0.0040	0.0000	0.0201	0.0469	0.0476	0.1122	0.1831	0.0796	0.0141	0.0376	0.1353	0.2436	0.2834	0.0459	0.0613	0.0083

Emission Factors from EMFAC (Type 3 Primary Distributor - 70kph)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0356	0.3130	0.0000	0.7226	1.3900	1.8474	3.2654	1.0748	0.1171	0.7635	1.4025	2.8644	4.5543	0.0000	4.9722	0.3432
RSP	0.0021	0.0000	0.0000	0.0277	0.0379	0.0691	0.1226	0.0577	0.0078	0.0383	0.1362	0.2487	0.2334	0.0000	0.0558	0.0070

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 21-22)

Traffic (Hour: 21-22)

Hour: 21-22				Flow Rate (veh./hr)																% of Total Flow																
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
1	Yip Hing St	1	40	15	5	0	5	5	5	5	0	0	0	0	0	0	0	0	0	37.50	12.50	0.00	12.50	12.50	12.50	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	Tong Bin Lane	1	45	20	5	0	5	5	5	5	0	0	0	0	0	0	0	0	0	44.44	11.11	0.00	11.11	11.11	11.11	11.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	Tong Bin Lane (near J/Wong Chuk	1	75	30	15	0	5	5	5	15	0	0	0	0	0	0	0	0	0	40.00	20.00	0.00	6.67	6.67	6.67	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	Yip Kan St	1	80	35	15	0	5	5	5	15	0	0	0	0	0	0	0	0	0	43.75	18.75	0.00	6.25	6.25	6.25	18.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	Wong Chuk Hang Road	2	1155	470	185	0	115	70	10	35	50	30	20	20	10	10	5	80	45	40.69	16.02	0.00	9.96	6.06	0.87	3.03	4.33	2.60	1.73	1.73	0.87	0.87	0.43	6.93	3.90
6	Wong Chuk Hang Road	2	1330	540	210	5	135	80	10	40	65	30	25	20	10	10	5	95	50	40.60	15.79	0.38	10.15	6.02	0.75	3.01	4.89	2.26	1.88	1.50	0.75	0.75	0.38	7.14	3.76
7	Wong Chuk Hang Road	2	565	145	90	0	45	25	5	5	60	15	15	15	5	5	5	115	15	25.66	15.93	0.00	7.96	4.42	0.88	0.88	10.62	2.65	2.65	2.65	0.88	0.88	0.88	20.35	2.65
8	Wong Chuk Hang Road(flyover)	3	760	355	120	0	85	50	10	30	20	15	15	5	5	5	0	15	30	46.71	15.79	0.00	11.18	6.58	1.32	3.95	2.63	1.97	1.97	0.66	0.66	0.66	0.00	1.97	3.95
9	Wong Chuk Hang Road	2	790	380	120	0	40	25	5	20	30	20	20	15	10	10	10	80	5	48.10	15.19	0.00	5.06	3.16	0.63	2.53	3.80	2.53	2.53	1.90	1.27	1.27	1.27	10.13	0.63
10	Wong Chuk Hang Road	2	575	270	85	0	30	20	5	15	20	15	15	10	10	10	10	55	5	46.96	14.78	0.00	5.22	3.48	0.87	2.61	3.48	2.61	2.61	1.74	1.74	1.74	1.74	9.57	0.87
11	Wong Chuk Hang Road	2	475	225	70	0	25	15	5	15	20	15	10	10	5	5	5	45	5	47.37	14.74	0.00	5.26	3.16	1.05	3.16	4.21	3.16	2.11	2.11	1.05	1.05	1.05	9.47	1.05
12	Wong Chuk Hang Road(flyover)	3	935	435	150	0	105	60	10	35	25	20	15	10	5	5	0	20	40	46.52	16.04	0.00	11.23	6.42	1.07	3.74	2.67	2.14	1.60	1.07	0.53	0.53	0.00	2.14	4.28
13	Wong Chuk Hang Road	2	550	70	65	0	30	15	0	0	80	10	0	5	5	5	20	235	10	12.73	11.82	0.00	5.45	2.73	0.00	0.00	14.55	1.82	0.00	0.91	0.91	0.91	3.64	42.73	1.82
14	Wong Chuk Hang Road	2	265	70	45	0	20	10	0	5	30	5	5	5	5	5	5	50	5	26.42	16.98	0.00	7.55	3.77	0.00	1.89	11.32	1.89	1.89	1.89	1.89	1.89	1.89	18.87	1.89
15	Wong Chuk Hang Road	2	1210	490	190	5	125	75	10	35	55	30	20	20	10	10	5	85	45	40.50	15.70	0.41	10.33	6.20	0.83	2.89	4.55	2.48	1.65	1.65	0.83	0.83	0.41	7.02	3.72
16	Nam Long Shan Road	1	720	330	90	0	40	25	5	15	35	15	15	15	10	10	10	85	20	45.83	12.50	0.00	5.56	3.47	0.69	2.08	4.86	2.08	2.08	2.08	1.39	1.39	1.39	11.81	2.78
17	Heung Yip Road	1	175	80	15	0	25	15	0	5	0	10	5	5	5	5	0	0	5	45.71	8.57	0.00	14.29	8.57	0.00	2.86	0.00	5.71	2.86	2.86	2.86	2.86	0.00	0.00	2.86
18	Heung Yip Road	1	225	105	20	0	30	20	5	5	0	10	10	5	5	5	0	0	5	46.67	8.89	0.00	13.33	8.89	2.22	2.22	0.00	4.44	4.44	2.22	2.22	2.22	0.00	0.00	2.22
19	Heung Yip Road	1	300	135	30	0	40	25	5	10	0	15	10	10	5	5	0	0	10	45.00	10.00	0.00	13.33	8.33	1.67	3.33	0.00	5.00	3.33	3.33	1.67	1.67	0.00	0.00	3.33
20	Yip Fat St	1	150	65	15	0	20	10	0	5	0	10	5	5	5	5	0	0	5	43.33	10.00	0.00	13.33	6.67	0.00	3.33	0.00	6.67	3.33	3.33	3.33	3.33	0.00	0.00	3.33
21	Heung Yip Road	1	150	70	15	0	20	10	0	5	0	5	5	5	5	5	0	0	5	46.67	10.00	0.00	13.33	6.67	0.00	3.33	0.00	3.33	3.33	3.33	3.33	3.33	0.00	0.00	3.33
22	Yip Fat St	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	Yip Fat St	1	105	45	10	0	15	10	0	5	0	5	5	5	0	0	0	0	5	42.86	9.52	0.00	14.29	9.52	0.00	4.76	0.00	4.76	4.76	4.76	0.00	0.00	0.00	0.00	4.76
24	Heung Yip Road	1	140	65	10	0	20	10	0	5	0	5	5	5	5	5	0	0	5	46.43	7.14	0.00	14.29	7.14	0.00	3.57	0.00	3.57	3.57	3.57	3.57	3.57	0.00	0.00	3.57
25	Heung Yip Road	1	180	90	25	0	20	10	0	5	0	10	10	5	0	0	0	0	5	50.00	13.89	0.00	11.11	5.56	0.00	2.78	0.00	5.56	5.56	2.78	0.00	0.00	0.00	0.00	2.78
26	Heung Yip Road	1	215	105	25	0	20	15	5	5	0	10	10	5	5	5	0	0	5	48.84	11.63	0.00	9.30	6.98	2.33	2.33	0.00	4.65	4.65	2.33	2.33	2.33	0.00	0.00	2.33
27	Heung Yip Road	1	65	30	5	0	10	5	0	0	0	5	5	0	0	0	0	0	5	46.15	7.69	0.00	15.38	7.69	0.00	0.00	0.00	7.69	7.69	0.00	0.00	0.00	0.00	0.00	7.69
28	Heung Yip Road	1	80	35	5	0	10	5	0	5	0	5	5	5	0	0	0	0	5	43.75	6.25	0.00	12.50	6.25	0.00	6.25	0.00	6.25	6.25	6.25	0.00	0.00	0.00	0.00	6.25
29	Heung Yip Road	1	125	55	10	0	15	10	0	5	0	5	5	5	5	5	0	0	5	44.00	8.00	0.00	12.00	8.00	0.00	4.00	0.00	4.00	4.00	4.00	4.00	4.00	0.00	0.00	4.00
30	Nam Long Shan Road	1	15	0	0	0	0	0	0	0	5	0	0	0	0	0	0	10	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.33	0.00	0.00	0.00	0.00	0.00	0.00	66.67	0.00
31	Nam Long Shan Road	1	245	120	30	0	15	10	0	5	5	10	10	5	5	5	5	15	5	48.98	12.24	0.00	6.12	4.08	0.00	2.04	2.04	4.08	4.08	2.04	2.04	2.04	2.04	6.12	2.04
32	Nam Long Shan Road	1	245	120	30	0	15	10	0	5	5	10	10	5	5	5	5	15	5	48.98	12.24	0.00	6.12	4.08	0.00	2.04	2.04	4.08	4.08	2.04	2.04	2.04	2.04	6.12	2.04
33	Welfare Road	1	25	15	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	60.00	20.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	Welfare Road	1	20	15	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	Shum Wan Road	1	200	70	30	0	15	10	0	0	10	10	10	10	5	5	5	15	5	35.00	15.00	0.00	7.50	5.00	0.00	0.00	5.00	5.00	5.00	5.00	2.50	2.50	2.50	7.50	2.50
36	Shum Wan Road	1	195	70	30	0	15	10	0	0	10	10	10	10	5	5	0	15	5	35.90	15.38	0.00	7.69	5.13	0.00	0.00	5.13	5.13	5.13	5.13	2.56	2.56	0.00	7.69	2.56
37	Shum Wan Pier Drive	1	15	10	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66.67	33.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38	Nam Long Shan Road	1	245	125	30	0	15	10	0	5	5	10	10	5	5	5	0	15	5	51.02	12.24	0.00	6.12	4.08	0.00	2.04	2.04	4.08	4.08	2.04	2.04	2.04	0.00	6.12	2.04
39	Nam Long Shan Road	1	30	20	5	0	0	0	0	0	0	0	0	0	0	0	0	5	0	66.67	16.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.67	0.00
40	Nam Long Shan Road	1	40	25	5	0	5	0	0	0	0	0	0	0	0	0	0	5	0	62.50	12.50	0.00	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.50	0.00
41	Police School Road	1	225	115	30	0	15	5	0	5	5	10	5	5	5	5	0	15	5	51.11	13.33	0.00	6.67	2.22	0.00	2.22	2.22	4.44	2.22	2.22	2.22	2.22	0.00	6.67	2.22
42#	Police School Road		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 21-22)

Emission Factor Calculations (Hour: 00-01)

Hour: 21-22				% of Total Flow x Emission Factor (NOx)																	% of Total Flow x Emission Factor (RSP)																		Composite Emission Factor (g/veh·km)	
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	NOx	RSP
1	Yip Hing St	1	40	1.88	5.57	0.00	10.88	26.80	30.36	54.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.77	0.89	1.85	3.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.295	0.069
2	Tong Bin Lane	1	45	2.23	4.95	0.00	9.67	23.82	26.98	48.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.68	0.79	1.65	2.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.157	0.062
3	Tong Bin Lane (near J/Wong Chuk	1	75	2.00	8.91	0.00	5.80	14.29	16.19	86.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.41	0.48	0.99	4.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.337	0.071
4	Yip Kan St	1	80	2.19	8.35	0.00	5.44	13.40	15.18	81.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.38	0.45	0.93	4.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.256	0.067
5	Wong Chuk Hang Road	2	1155	1.76	6.18	0.00	7.45	10.39	1.91	11.67	4.29	0.36	1.41	3.13	3.19	5.06	2.46	40.75	1.35	0.16	0.00	0.00	0.47	0.29	0.10	0.55	0.34	0.04	0.07	0.23	0.21	0.25	0.02	0.42	0.03	1.014	0.032
6	Wong Chuk Hang Road	2	1330	1.76	6.09	0.21	7.60	10.32	1.66	11.58	4.84	0.32	1.53	2.72	2.77	4.39	2.13	42.03	1.31	0.16	0.00	0.01	0.48	0.29	0.08	0.55	0.39	0.03	0.07	0.20	0.18	0.21	0.02	0.44	0.03	1.012	0.031
7	Wong Chuk Hang Road	2	565	1.11	6.14	0.00	5.96	7.59	1.95	3.41	10.52	0.37	2.16	4.81	3.26	5.17	5.02	119.76	0.92	0.10	0.00	0.00	0.37	0.21	0.10	0.16	0.85	0.04	0.10	0.36	0.22	0.25	0.04	1.25	0.02	1.782	0.041
8	Wong Chuk Hang Road(flyover)	3	760	1.66	4.94	0.00	8.07	9.14	2.43	12.88	2.83	0.23	1.51	0.92	1.88	2.99	0.00	9.81	1.35	0.10	0.00	0.00	0.31	0.25	0.09	0.48	0.15	0.02	0.08	0.09	0.16	0.15	0.00	0.11	0.03	0.606	0.020
9	Wong Chuk Hang Road	2	790	2.08	5.86	0.00	3.79	5.43	1.40	9.75	3.76	0.35	2.06	3.44	4.66	7.39	7.18	59.58	0.22	0.19	0.00	0.00	0.24	0.15	0.07	0.46	0.30	0.04	0.10	0.26	0.31	0.36	0.06	0.62	0.01	1.170	0.032
10	Wong Chuk Hang Road	2	575	2.03	5.70	0.00	3.91	5.97	1.92	10.04	3.45	0.37	2.12	3.15	6.40	10.16	9.87	56.28	0.30	0.19	0.00	0.00	0.24	0.17	0.10	0.48	0.28	0.04	0.10	0.24	0.42	0.49	0.08	0.59	0.01	1.217	0.034
11	Wong Chuk Hang Road	2	475	2.05	5.68	0.00	3.94	5.42	2.32	12.16	4.17	0.44	1.71	3.81	3.87	6.15	5.97	55.74	0.37	0.19	0.00	0.00	0.25	0.15	0.12	0.58	0.34	0.04	0.08	0.28	0.26	0.30	0.05	0.58	0.01	1.138	0.032
12	Wong Chuk Hang Road(flyover)	3	935	1.66	5.01	0.00	8.11	8.91	1.97	12.21	2.87	0.25	1.22	1.50	1.53	2.43	0.00	10.63	1.47	0.10	0.00	0.00	0.31	0.24	0.07	0.46	0.15	0.02	0.06	0.15	0.13	0.12	0.00	0.12	0.03	0.598	0.020
13	Wong Chuk Hang Road	2	550	0.55	4.56	0.00	4.08	4.68	0.00	0.00	14.41	0.25	0.00	1.65	3.34	5.31	20.64	251.40	0.63	0.05	0.00	0.00	0.26	0.13	0.00	0.00	1.16	0.03	0.00	0.12	0.22	0.26	0.17	2.62	0.02	3.115	0.050
14	Wong Chuk Hang Road	2	265	1.14	6.55	0.00	5.65	6.47	0.00	7.26	11.22	0.26	1.53	3.41	6.94	11.02	10.71	111.02	0.66	0.11	0.00	0.00	0.35	0.18	0.00	0.35	0.90	0.03	0.07	0.26	0.46	0.53	0.09	1.16	0.02	1.839	0.045
15	Wong Chuk Hang Road	2	1210	1.75	6.05	0.23	7.73	10.63	1.82	11.14	4.50	0.35	1.34	2.99	3.04	4.83	2.35	41.33	1.29	0.16	0.00	0.01	0.48	0.29	0.09	0.53	0.36	0.04	0.06	0.22	0.20	0.23	0.02	0.43	0.03	1.014	0.032
16	Nam Long Shan Road	1	720	2.30	5.57	0.00	4.84	7.44	1.69	9.01	5.07	0.34	1.96	5.08	6.68	10.60	10.92	88.00	1.07	0.29	0.00	0.00	0.34	0.25	0.10	0.52	0.71	0.04	0.11	0.39	0.45	0.61	0.09	1.04	0.05	1.606	0.050
17	Heung Yip Road	1	175	2.29	3.82	0.00	12.44	18.38	0.00	12.35	0.00	0.94	2.69	6.96	13.75	21.81	0.00	0.00	1.10	0.28	0.00	0.00	0.88	0.61	0.00	0.71	0.00	0.12	0.15	0.54	0.93	1.26	0.00	0.00	0.05	0.965	0.055
18	Heung Yip Road	1	225	2.34	3.96	0.00	11.61	19.06	5.40	9.61	0.00	0.73	4.18	5.42	10.69	16.97	0.00	0.00	0.86	0.29	0.00	0.00	0.82	0.64	0.33	0.55	0.00	0.09	0.23	0.42	0.72	0.98	0.00	0.00	0.04	0.908	0.051
19	Heung Yip Road	1	300	2.26	4.46	0.00	11.61	17.87	4.05	14.41	0.00	0.82	3.14	8.13	8.02	12.72	0.00	0.00	1.29	0.28	0.00	0.00	0.82	0.60	0.25	0.83	0.00	0.11	0.17	0.63	0.54	0.74	0.00	0.00	0.06	0.888	0.050
20	Yip Fat St	1	150	2.17	4.46	0.00	11.61	14.29	0.00	14.41	0.00	1.09	3.14	8.13	16.04	25.45	0.00	0.00	1.29	0.27	0.00	0.00	0.82	0.48	0.00	0.83	0.00	0.14	0.17	0.63	1.09	1.47	0.00	0.00	0.06	1.021	0.059
21	Heung Yip Road	1	150	2.34	4.46	0.00	11.61	14.29	0.00	14.41	0.00	0.55	3.14	8.13	16.04	25.45	0.00	0.00	1.29	0.29	0.00	0.00	0.82	0.48	0.00	0.83	0.00	0.07	0.17	0.63	1.09	1.47	0.00	0.00	0.06	1.017	0.059
22	Yip Fat St	1	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
23	Yip Fat St	1	105	2.15	4.24	0.00	12.44	20.42	0.00	20.59	0.00	0.78	4.48	11.61	0.00	0.00	0.00	0.00	1.84	0.27	0.00	0.00	0.88	0.68	0.00	1.19	0.00	0.10	0.24	0.90	0.00	0.00	0.00	0.00	0.08	0.785	0.043
24	Heung Yip Road	1	140	2.33	3.18	0.00	12.44	15.31	0.00	15.44	0.00	0.59	3.36	8.71	17.19	27.27	0.00	0.00	1.38	0.29	0.00	0.00	0.88	0.51	0.00	0.89	0.00	0.08	0.18	0.67	1.16	1.58	0.00	0.00	0.06	1.072	0.063
25	Heung Yip Road	1	180	2.51	6.19	0.00	9.67	11.91	0.00	12.01	0.00	0.91	5.23	6.77	0.00	0.00	0.00	0.00	1.07	0.31	0.00	0.00	0.68	0.40	0.00	0.69	0.00	0.12	0.28	0.52	0.00	0.00	0.00	0.00	0.05	0.563	0.031
26	Heung Yip Road	1	215	2.45	5.18	0.00	8.10	14.96	5.65	10.06	0.00	0.76	4.38	5.67	11.19	17.75	0.00	0.00	0.90	0.30	0.00	0.00	0.57	0.50	0.34	0.58	0.00	0.10	0.24	0.44	0.76	1.03	0.00	0.00	0.04	0.870	0.049
27	Heung Yip Road	1	65	2.31	3.43	0.00	13.39	16.49	0.00	0.00	0.00	1.26	7.24	0.00	0.00	0.00	0.00	0.00	2.97	0.29	0.00	0.00	0.95	0.55	0.00	0.00	0.00	0.16	0.39	0.00	0.00	0.00	0.00	0.00	0.13	0.471	0.025
28	Heung Yip Road	1	80	2.19	2.78	0.00	10.88	13.40	0.00	27.02	0.00	1.03	5.88	15.23	0.00	0.00	0.00	0.00	2.41	0.27	0.00	0.00	0.77	0.45	0.00	1.56	0.00	0.13	0.32	1.18	0.00	0.00	0.00	0.00	0.10	0.808	0.048
29	Heung Yip Road	1	125	2.21	3.56	0.00	10.45	17.15	0.00	17.30	0.00	0.66	3.76	9.75	19.25	30.54	0.00	0.00	1.55	0.27	0.00	0.00	0.74	0.57	0.00	1.00	0.00	0.09	0.20	0.76	1.30	1.76	0.00	0.00	0.07	1.162	0.068
30	Nam Long Shan Road	1	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.73	0.00	0.00	0.00	0.00	0.00	0.00	496.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.85	0.00	0.00	0.00	0.00	0.00	0.00	5.89	0.00	5.317	0.107
31	Nam Long Shan Road	1	245	2.46	5.46	0.00	5.33	8.75	0.00	8.82	2.13	0.67	3.84	4.97	9.82	15.58	16.04	45.64	0.79	0.30	0.00	0.00	0.38	0.29	0.00	0.51	0.30	0.09	0.21	0.39	0.66	0.90	0.13	0.54	0.03	1.303	0.047
32	Nam Long Shan Road	1	245	2.46	5.46	0.00	5.33	8.75	0.00	8.82	2.13	0.67	3.84	4.97	9.82	15.58	16.04	45.64	0.79	0.30	0.00	0.00	0.38	0.29	0.00	0.51	0.30	0.09	0.21	0.39	0.66	0.90	0.13	0.54	0.03	1.303	0.047
33	Welfare Road	1	25	3.01	8.91	0.00	17.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.293	0.016
34	Welfare Road	1	20	3.76	11.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.149	0.005
35	Shum Wan Road	1	200	1.75	6.68	0.00	6.53	10.72	0.00	0.00	5.21	0.82	4.71	12.19	12.03	19.09	19.65	55.91	0.97	0.22	0.00	0.00	0.46	0.36	0.00	0.00	0.73	0.11	0.25	0.94	0.81	1.10	0.16	0.66	0.04	1.562	0.059
36	Shum Wan Road	1	195	1.80	6.85	0.00	6.70	10.99	0.00	0.00	5.34	0.84	4.83	12.50	12.34	19.58	0.00	57.34	0.99	0.22	0.00	0.00	0.47	0.37	0.00	0.00	0.75	0.11	0.26	0.97	0.84	1.13	0.00	0.68	0.04	1.401	0.058
37	Shum Wan Pier Drive	1	15	3.34	14.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.182	0.004
38	Nam Long Shan Road	1	245	2.56	5.46	0.00	5.33	8.75	0.00	8.82	2.13	0.67	3.84	4.97	9.82	15.58	0.00	45.64	0.79	0.32	0.00	0.00	0.38	0.29	0.00	0.51	0.30	0.09	0.21	0.39	0.66	0.90	0.00	0.54	0.03	1.144	0.046
39	Nam Long Shan Road	1	30	3.34	7.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	124.24	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.47	0.00	1.350	0.019
40	Nam Long Shan Road	1	40	3.13	5.57	0.00	10.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	93.18	0.00	0.39	0.00	0.00	0.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.10	0.00	1.128	0.023
41	Police School Road	1	225	2.56	5.94	0.00	5.80	4.76	0.00	9.61	2.32	0.73	2.09	5.42	10.69	16.97	0.00	49.69	0.86	0.32	0.00	0.00	0.41	0.16	0.00	0.55	0.32	0.09	0.11	0.42	0.72	0.98	0.00	0.59	0.04	1.174	0.047
42#	Police School Road		NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	#VALUE!	#VALUE!

Emission Factors from EMFAC (Type 1 Local Road - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0501	0.4455	0.0000	0.8706	2.1439	2.4286	4.3238	1.0420	0.1642	0.9410	2.4375	4.8119	7.6344	7.8592	7.4542	0.3863
RSP	0.0062	0.0000	0.0000	0.0615	0.0715	0.1481	0.2491	0.1456	0.0214	0.0509	0.1888	0.3257	0.4410	0.0659	0.0883	0.0167

Emission Factors from EMFAC (Type 2 Primary Distributor - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0432	0.3856	0.5484	0.7486	1.7150	2.2081	3.8497	0.9908	0.1400	0.8132	1.8099	3.6795	5.8418	5.6760	5.8839	0.3472
RSP	0.0040	0.0000	0.0201	0.0469	0.0476	0.1122	0.1831	0.0796	0.0141	0.0376	0.1353	0.2436	0.2834	0.0459	0.0613	0.0083

Emission Factors from EMFAC (Type 3 Primary Distributor - 70kph)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0356	0.3126	0.0000	0.7220	1.3888	1.8458	3.2626	1.0736	0.1170	0.7627	1.4013	2.8620	4.5505	0.0000	4.9681	0.3428
RSP	0.0021	0.0000	0.0000	0.0277	0.0379	0.0691	0.1226	0.0577	0.0078	0.0383	0.1362	0.2487	0.2334	0.0000	0.0558	0.0070

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 22-23)

Traffic (Hour: 22-23)

Hour: 22-23				Flow Rate (veh./hr)																% of Total Flow																
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
1	Yip Hing St	1	40	15	5	0	5	5	5	5	0	0	0	0	0	0	0	0	0	37.50	12.50	0.00	12.50	12.50	12.50	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	Tong Bin Lane	1	40	15	5	0	5	5	5	5	0	0	0	0	0	0	0	0	0	37.50	12.50	0.00	12.50	12.50	12.50	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	Tong Bin Lane (near J/Wong Chuk	1	75	30	15	0	5	5	5	15	0	0	0	0	0	0	0	0	0	40.00	20.00	0.00	6.67	6.67	6.67	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	Yip Kan St	1	80	35	15	0	5	5	5	15	0	0	0	0	0	0	0	0	0	43.75	18.75	0.00	6.25	6.25	6.25	18.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	Wong Chuk Hang Road	2	875	360	140	0	85	50	10	25	40	20	15	15	10	10	5	60	30	41.14	16.00	0.00	9.71	5.71	1.14	2.86	4.57	2.29	1.71	1.71	1.14	1.14	0.57	6.86	3.43
6	Wong Chuk Hang Road	2	1015	415	160	5	100	60	10	30	50	20	20	15	10	10	5	70	35	40.89	15.76	0.49	9.85	5.91	0.99	2.96	4.93	1.97	1.97	1.48	0.99	0.99	0.49	6.90	3.45
7	Wong Chuk Hang Road	2	430	115	70	0	30	20	5	5	45	10	10	10	5	5	5	85	10	26.74	16.28	0.00	6.98	4.65	1.16	1.16	10.47	2.33	2.33	2.33	1.16	1.16	1.16	19.77	2.33
8	Wong Chuk Hang Road(flyover)	3	585	270	95	0	65	35	10	20	15	10	10	5	5	5	0	15	25	46.15	16.24	0.00	11.11	5.98	1.71	3.42	2.56	1.71	1.71	0.85	0.85	0.85	0.00	2.56	4.27
9	Wong Chuk Hang Road	2	600	290	90	0	30	15	5	15	20	15	15	10	10	10	10	60	5	48.33	15.00	0.00	5.00	2.50	0.83	2.50	3.33	2.50	2.50	1.67	1.67	1.67	1.67	10.00	0.83
10	Wong Chuk Hang Road	2	450	210	65	0	20	15	5	10	15	10	10	10	10	10	10	45	5	46.67	14.44	0.00	4.44	3.33	1.11	2.22	3.33	2.22	2.22	2.22	2.22	2.22	2.22	10.00	1.11
11	Wong Chuk Hang Road	2	365	175	55	0	15	10	5	10	15	10	5	10	5	5	5	35	5	47.95	15.07	0.00	4.11	2.74	1.37	2.74	4.11	2.74	1.37	2.74	1.37	1.37	1.37	9.59	1.37
12	Wong Chuk Hang Road(flyover)	3	710	330	115	0	75	45	10	25	20	15	10	10	5	5	0	15	30	46.48	16.20	0.00	10.56	6.34	1.41	3.52	2.82	2.11	1.41	1.41	0.70	0.70	0.00	2.11	4.23
13	Wong Chuk Hang Road	2	410	50	50	0	20	10	0	0	65	5	0	5	5	5	15	175	5	12.20	12.20	0.00	4.88	2.44	0.00	0.00	15.85	1.22	0.00	1.22	1.22	1.22	3.66	42.68	1.22
14	Wong Chuk Hang Road	2	215	55	35	0	15	10	0	5	20	5	5	5	5	5	5	40	5	25.58	16.28	0.00	6.98	4.65	0.00	2.33	9.30	2.33	2.33	2.33	2.33	2.33	2.33	18.60	2.33
15	Wong Chuk Hang Road	2	920	375	145	5	90	55	10	25	45	20	15	15	10	10	5	65	30	40.76	15.76	0.54	9.78	5.98	1.09	2.72	4.89	2.17	1.63	1.63	1.09	1.09	0.54	7.07	3.26
16	Nam Long Shan Road	1	550	250	70	0	30	15	5	10	30	10	10	10	10	10	10	65	15	45.45	12.73	0.00	5.45	2.73	0.91	1.82	5.45	1.82	1.82	1.82	1.82	1.82	1.82	11.82	2.73
17	Heung Yip Road	1	180	85	15	0	25	15	0	5	0	10	5	5	5	5	0	0	5	47.22	8.33	0.00	13.89	8.33	0.00	2.78	0.00	5.56	2.78	2.78	2.78	2.78	0.00	0.00	2.78
18	Heung Yip Road	1	220	105	20	0	30	15	5	5	0	10	10	5	5	5	0	0	5	47.73	9.09	0.00	13.64	6.82	2.27	2.27	0.00	4.55	4.55	2.27	2.27	2.27	0.00	0.00	2.27
19	Heung Yip Road	1	300	140	25	0	40	20	5	10	0	15	15	10	5	5	0	0	10	46.67	8.33	0.00	13.33	6.67	1.67	3.33	0.00	5.00	5.00	3.33	1.67	1.67	0.00	0.00	3.33
20	Yip Fat St	1	155	70	15	0	20	10	0	5	0	10	5	5	5	5	0	0	5	45.16	9.68	0.00	12.90	6.45	0.00	3.23	0.00	6.45	3.23	3.23	3.23	3.23	0.00	0.00	3.23
21	Heung Yip Road	1	155	75	15	0	20	10	0	5	0	5	5	5	5	5	0	0	5	48.39	9.68	0.00	12.90	6.45	0.00	3.23	0.00	3.23	3.23	3.23	3.23	3.23	0.00	0.00	3.23
22	Yip Fat St	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	Yip Fat St	1	105	45	10	0	15	10	0	5	0	5	5	5	0	0	0	0	5	42.86	9.52	0.00	14.29	9.52	0.00	4.76	0.00	4.76	4.76	4.76	0.00	0.00	0.00	0.00	4.76
24	Heung Yip Road	1	145	70	10	0	20	10	0	5	0	5	5	5	5	5	0	0	5	48.28	6.90	0.00	13.79	6.90	0.00	3.45	0.00	3.45	3.45	3.45	3.45	3.45	0.00	0.00	3.45
25	Heung Yip Road	1	175	90	20	0	20	10	0	5	0	10	10	5	0	0	0	0	5	51.43	11.43	0.00	11.43	5.71	0.00	2.86	0.00	5.71	5.71	2.86	0.00	0.00	0.00	0.00	2.86
26	Heung Yip Road	1	220	110	25	0	20	15	5	5	0	10	10	5	5	5	0	0	5	50.00	11.36	0.00	9.09	6.82	2.27	2.27	0.00	4.55	4.55	2.27	2.27	2.27	0.00	0.00	2.27
27	Heung Yip Road	1	65	30	5	0	10	5	0	0	0	5	5	0	0	0	0	0	5	46.15	7.69	0.00	15.38	7.69	0.00	0.00	0.00	7.69	7.69	0.00	0.00	0.00	0.00	0.00	7.69
28	Heung Yip Road	1	85	40	5	0	10	5	0	5	0	5	5	5	0	0	0	0	5	47.06	5.88	0.00	11.76	5.88	0.00	5.88	0.00	5.88	5.88	5.88	0.00	0.00	0.00	0.00	5.88
29	Heung Yip Road	1	125	55	10	0	15	10	0	5	0	5	5	5	5	5	0	0	5	44.00	8.00	0.00	12.00	8.00	0.00	4.00	0.00	4.00	4.00	4.00	4.00	4.00	0.00	0.00	4.00
30	Nam Long Shan Road	1	15	0	0	0	0	0	0	0	5	0	0	0	0	0	0	10	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.33	0.00	0.00	0.00	0.00	0.00	0.00	66.67	0.00
31	Nam Long Shan Road	1	250	125	30	0	15	10	0	5	5	10	10	5	5	5	5	15	5	50.00	12.00	0.00	6.00	4.00	0.00	2.00	2.00	4.00	4.00	2.00	2.00	2.00	2.00	6.00	2.00
32	Nam Long Shan Road	1	245	120	30	0	15	10	0	5	5	10	10	5	5	5	5	15	5	48.98	12.24	0.00	6.12	4.08	0.00	2.04	2.04	4.08	4.08	2.04	2.04	2.04	2.04	6.12	2.04
33	Welfare Road	1	25	15	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	60.00	20.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	Welfare Road	1	20	15	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	Shum Wan Road	1	170	60	25	0	10	5	0	0	10	10	10	10	5	5	5	10	5	35.29	14.71	0.00	5.88	2.94	0.00	0.00	5.88	5.88	5.88	5.88	2.94	2.94	2.94	5.88	2.94
36	Shum Wan Road	1	160	60	25	0	10	5	0	0	10	10	5	10	5	5	0	10	5	37.50	15.63	0.00	6.25	3.13	0.00	0.00	6.25	6.25	3.13	6.25	3.13	3.13	0.00	6.25	3.13
37	Shum Wan Pier Drive	1	10	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38	Nam Long Shan Road	1	250	130	30	0	15	10	0	5	5	10	10	5	5	5	0	15	5	52.00	12.00	0.00	6.00	4.00	0.00	2.00	2.00	4.00	4.00	2.00	2.00	2.00	0.00	6.00	2.00
39	Nam Long Shan Road	1	35	25	5	0	0	0	0	0	0	0	0	0	0	0	0	5	0	71.43	14.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.29	0.00
40	Nam Long Shan Road	1	45	30	5	0	5	0	0	0	0	0	0	0	0	0	0	5	0	66.67	11.11	0.00	11.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.11	0.00
41	Police School Road	1	230	120	30	0	15	5	0	5	5	10	5	5	5	5	0	15	5	52.17	13.04	0.00	6.52	2.17	0.00	2.17	2.17	4.35	2.17	2.17	2.17	2.17	0.00	6.52	2.17
42#	Police School Road		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 22-23)

Emission Factor Calculations (Hour: 00-01)

Hour: 22-23				% of Total Flow x Emission Factor (NOx)																	% of Total Flow x Emission Factor (RSP)																		Composite Emission Factor (g/veh·km)	
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	NOx	RSP
1	Yip Hing St	1	40	1.87	5.55	0.00	10.79	26.03	30.36	54.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.76	0.85	1.85	3.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.286	0.068
2	Tong Bin Lane	1	40	1.87	5.55	0.00	10.79	26.03	30.36	54.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.76	0.85	1.85	3.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.286	0.068
3	Tong Bin Lane (near J/Wong Chuk	1	75	2.00	8.88	0.00	5.75	13.88	16.19	86.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.40	0.46	0.99	4.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.331	0.071
4	Yip Kan St	1	80	2.18	8.32	0.00	5.39	13.02	15.18	81.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.38	0.43	0.93	4.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.251	0.067
5	Wong Chuk Hang Road	2	875	1.78	6.17	0.00	7.27	9.80	2.52	11.00	4.53	0.32	1.39	3.10	4.20	6.67	3.24	40.34	1.19	0.17	0.00	0.00	0.46	0.27	0.13	0.52	0.36	0.03	0.06	0.23	0.28	0.32	0.03	0.42	0.03	1.035	0.033
6	Wong Chuk Hang Road	2	1015	1.77	6.08	0.27	7.37	10.14	2.17	11.38	4.88	0.28	1.60	2.67	3.62	5.75	2.80	40.57	1.20	0.17	0.00	0.01	0.46	0.28	0.11	0.54	0.39	0.03	0.07	0.20	0.24	0.28	0.02	0.42	0.03	1.025	0.033
7	Wong Chuk Hang Road	2	430	1.16	6.28	0.00	5.22	7.97	2.57	4.48	10.37	0.33	1.89	4.21	4.28	6.79	6.60	116.28	0.81	0.11	0.00	0.00	0.33	0.22	0.13	0.21	0.83	0.03	0.09	0.31	0.28	0.33	0.05	1.21	0.02	1.792	0.042
8	Wong Chuk Hang Road(flyover)	3	585	1.64	5.07	0.00	8.02	8.31	3.15	11.15	2.75	0.20	1.30	1.20	2.45	3.89	0.00	12.74	1.46	0.10	0.00	0.00	0.31	0.23	0.12	0.42	0.15	0.01	0.07	0.12	0.21	0.20	0.00	0.14	0.03	0.633	0.021
9	Wong Chuk Hang Road	2	600	2.09	5.78	0.00	3.74	4.29	1.84	9.62	3.30	0.35	2.03	3.02	6.13	9.73	9.46	58.82	0.29	0.20	0.00	0.00	0.23	0.12	0.09	0.46	0.27	0.04	0.09	0.23	0.41	0.47	0.08	0.61	0.01	1.205	0.033
10	Wong Chuk Hang Road	2	450	2.02	5.57	0.00	3.33	5.72	2.45	8.55	3.30	0.31	1.81	4.02	8.17	12.98	12.61	58.82	0.39	0.19	0.00	0.00	0.21	0.16	0.12	0.41	0.27	0.03	0.08	0.30	0.54	0.63	0.10	0.61	0.01	1.300	0.037
11	Wong Chuk Hang Road	2	365	2.07	5.81	0.00	3.08	4.70	3.02	10.54	4.07	0.38	1.11	4.96	5.04	8.00	7.77	56.41	0.48	0.19	0.00	0.00	0.19	0.13	0.15	0.50	0.33	0.04	0.05	0.37	0.33	0.39	0.06	0.59	0.01	1.174	0.033
12	Wong Chuk Hang Road(flyover)	3	710	1.65	5.06	0.00	7.62	8.80	2.60	11.49	3.02	0.25	1.07	1.97	2.01	3.20	0.00	10.49	1.45	0.10	0.00	0.00	0.29	0.24	0.10	0.43	0.16	0.02	0.05	0.19	0.18	0.16	0.00	0.12	0.03	0.607	0.021
13	Wong Chuk Hang Road	2	410	0.53	4.70	0.00	3.65	4.18	0.00	0.00	15.71	0.17	0.00	2.21	4.49	7.12	20.76	251.07	0.42	0.05	0.00	0.00	0.23	0.12	0.00	0.00	1.26	0.02	0.00	0.16	0.30	0.35	0.17	2.62	0.01	3.150	0.053
14	Wong Chuk Hang Road	2	215	1.11	6.28	0.00	5.22	7.97	0.00	8.95	9.22	0.33	1.89	4.21	8.55	13.58	13.20	109.44	0.81	0.10	0.00	0.00	0.33	0.22	0.00	0.43	0.74	0.03	0.09	0.31	0.57	0.66	0.11	1.14	0.02	1.907	0.047
15	Wong Chuk Hang Road	2	920	1.76	6.08	0.30	7.32	10.25	2.40	10.46	4.85	0.30	1.33	2.95	4.00	6.35	3.08	41.56	1.13	0.17	0.00	0.01	0.46	0.28	0.12	0.50	0.39	0.03	0.06	0.22	0.26	0.31	0.02	0.43	0.03	1.041	0.033
16	Nam Long Shan Road	1	550	2.27	5.65	0.00	4.71	5.68	2.21	7.86	5.68	0.30	1.70	4.43	8.74	13.87	14.29	86.30	1.05	0.28	0.00	0.00	0.33	0.19	0.13	0.45	0.79	0.04	0.09	0.34	0.59	0.80	0.12	1.02	0.05	1.647	0.052
17	Heung Yip Road	1	180	2.36	3.70	0.00	11.98	17.35	0.00	12.00	0.00	0.92	2.59	6.77	13.35	21.19	0.00	0.00	1.07	0.29	0.00	0.00	0.84	0.57	0.00	0.69	0.00	0.12	0.14	0.52	0.90	1.23	0.00	0.00	0.05	0.933	0.054
18	Heung Yip Road	1	220	2.38	4.03	0.00	11.77	14.20	5.52	9.82	0.00	0.75	4.24	5.54	10.93	17.34	0.00	0.00	0.87	0.29	0.00	0.00	0.83	0.47	0.34	0.57	0.00	0.10	0.23	0.43	0.74	1.00	0.00	0.00	0.04	0.874	0.050
19	Heung Yip Road	1	300	2.33	3.70	0.00	11.51	13.88	4.05	14.41	0.00	0.82	4.66	8.12	8.01	12.72	0.00	0.00	1.28	0.29	0.00	0.00	0.81	0.46	0.25	0.83	0.00	0.11	0.25	0.63	0.54	0.74	0.00	0.00	0.06	0.855	0.049
20	Yip Fat St	1	155	2.25	4.29	0.00	11.13	13.44	0.00	13.94	0.00	1.06	3.01	7.86	15.51	24.61	0.00	0.00	1.24	0.28	0.00	0.00	0.78	0.44	0.00	0.80	0.00	0.14	0.16	0.61	1.05	1.42	0.00	0.00	0.05	0.984	0.057
21	Heung Yip Road	1	155	2.41	4.29	0.00	11.13	13.44	0.00	13.94	0.00	0.53	3.01	7.86	15.51	24.61	0.00	0.00	1.24	0.30	0.00	0.00	0.78	0.44	0.00	0.80	0.00	0.07	0.16	0.61	1.05	1.42	0.00	0.00	0.05	0.980	0.057
22	Yip Fat St	1	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
23	Yip Fat St	1	105	2.14	4.23	0.00	12.33	19.83	0.00	20.58	0.00	0.78	4.44	11.60	0.00	0.00	0.00	0.00	1.83	0.26	0.00	0.00	0.87	0.65	0.00	1.19	0.00	0.10	0.24	0.90	0.00	0.00	0.00	0.00	0.08	0.778	0.043
24	Heung Yip Road	1	145	2.41	3.06	0.00	11.90	14.36	0.00	14.90	0.00	0.57	3.22	8.40	16.58	26.31	0.00	0.00	1.33	0.30	0.00	0.00	0.84	0.47	0.00	0.86	0.00	0.07	0.17	0.65	1.12	1.52	0.00	0.00	0.06	1.030	0.061
25	Heung Yip Road	1	175	2.57	5.07	0.00	9.86	11.90	0.00	12.35	0.00	0.94	5.33	6.96	0.00	0.00	0.00	0.00	1.10	0.32	0.00	0.00	0.69	0.39	0.00	0.71	0.00	0.12	0.29	0.54	0.00	0.00	0.00	0.00	0.05	0.561	0.031
26	Heung Yip Road	1	220	2.50	5.04	0.00	7.84	14.20	5.52	9.82	0.00	0.75	4.24	5.54	10.93	17.34	0.00	0.00	0.87	0.31	0.00	0.00	0.55	0.47	0.34	0.57	0.00	0.10	0.23	0.43	0.74	1.00	0.00	0.00	0.04	0.846	0.048
27	Heung Yip Road	1	65	2.30	3.41	0.00	13.28	16.02	0.00	0.00	0.00	1.27	7.17	0.00	0.00	0.00	0.00	0.00	2.96	0.28	0.00	0.00	0.93	0.53	0.00	0.00	0.00	0.16	0.38	0.00	0.00	0.00	0.00	0.00	0.13	0.464	0.024
28	Heung Yip Road	1	85	2.35	2.61	0.00	10.15	12.25	0.00	25.42	0.00	0.97	5.49	14.33	0.00	0.00	0.00	0.00	2.26	0.29	0.00	0.00	0.71	0.40	0.00	1.47	0.00	0.13	0.29	1.11	0.00	0.00	0.00	0.00	0.10	0.758	0.045
29	Heung Yip Road	1	125	2.20	3.55	0.00	10.35	16.66	0.00	17.29	0.00	0.66	3.73	9.75	19.23	30.52	0.00	0.00	1.54	0.27	0.00	0.00	0.73	0.55	0.00	1.00	0.00	0.09	0.20	0.76	1.30	1.76	0.00	0.00	0.07	1.155	0.067
30	Nam Long Shan Road	1	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.68	0.00	0.00	0.00	0.00	0.00	0.00	486.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.85	0.00	0.00	0.00	0.00	0.00	0.00	5.73	0.00	5.215	0.106
31	Nam Long Shan Road	1	250	2.50	5.33	0.00	5.18	8.33	0.00	8.64	2.08	0.66	3.73	4.87	9.62	15.26	15.72	43.81	0.77	0.31	0.00	0.00	0.36	0.27	0.00	0.50	0.29	0.09	0.20	0.38	0.65	0.88	0.13	0.52	0.03	1.265	0.046
32	Nam Long Shan Road	1	245	2.44	5.43	0.00	5.28	8.50	0.00	8.82	2.12	0.67	3.81	4.97	9.81	15.57	16.04	44.71	0.79	0.30	0.00	0.00	0.37	0.28	0.00	0.51	0.30	0.09	0.20	0.39	0.66	0.90	0.13	0.53	0.03	1.290	0.047
33	Welfare Road	1	25	2.99	8.88	0.00	17.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	1.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.291	0.016
34	Welfare Road	1	20	3.74	11.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.148	0.005
35	Shum Wan Road	1	170	1.76	6.53	0.00	5.08	6.12	0.00	0.00	6.12	0.97	5.49	14.33	14.14	22.44	23.12	42.95	1.13	0.22	0.00	0.00	0.36	0.20	0.00	0.00	0.86	0.13	0.29	1.11	0.96	1.30	0.19	0.51	0.05	1.502	0.062
36	Shum Wan Road	1	160	1.87	6.93	0.00	5.39	6.51	0.00	0.00	6.50	1.03	2.91	15.23	15.02	23.84	0.00	45.64	1.20	0.23	0.00	0.00	0.38	0.21	0.00	0.00	0.91	0.13	0.16	1.18	1.02	1.38	0.00	0.54	0.05	1.321	0.062
37	Shum Wan Pier Drive	1	10	2.50	22.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.247	0.003
38	Nam Long Shan Road	1	250	2.60	5.33	0.00	5.18	8.33	0.00	8.64	2.08	0.66	3.73	4.87	9.62	15.26	0.00	43.81	0.77	0.32	0.00	0.00	0.36	0.27	0.00	0.50	0.29	0.09	0.20	0.38	0.65	0.88	0.00	0.52	0.03	1.109	0.045
39	Nam Long Shan Road	1	35	3.56	6.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	104.31	0.00	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.23	0.00	1.142	0.017
40	Nam Long Shan Road	1	45	3.33	4.93	0.00	9.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	81.13	0.00	0.41	0.00	0.00	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.96	0.00	0.990	0.020
41	Police School Road	1	230	2.60	5.79	0.00	5.63	4.53	0.00	9.39	2.26	0.72	2.03	5.30	10.45	16.59	0.00	47.62	0.84	0.32	0.00	0.00	0.40	0.15	0.00	0.54	0.32	0.09	0.11	0.41	0.71	0.96	0.00	0.56	0.04	1.137	0.046
42#	Police School Road		NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	#VALUE!	#VALUE!

Emission Factors from EMFAC (Type 1 Local Road - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0499	0.4438	0.0000	0.8629	2.0825	2.4286	4.3216	1.0405	0.1647	0.9325	2.4366	4.8077	7.6302	7.8592	7.3019	0.3847
RSP	0.0061	0.0000	0.0000	0.0606	0.0683	0.1481	0.2491	0.1456	0.0214	0.0500	0.1888	0.3257	0.4410	0.0659	0.0860	0.0168

Emission Factors from EMFAC (Type 2 Primary Distributor - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0432	0.3855	0.5483	0.7484	1.7146	2.2075	3.8487	0.9907	0.1400	0.8130	1.8095	3.6785	5.8402	5.6745	5.8823	0.3472
RSP	0.0040	0.0000	0.0201	0.0469	0.0476	0.1122	0.1831	0.0796	0.0141	0.0376	0.1353	0.2436	0.2834	0.0459	0.0613	0.0083

Emission Factors from EMFAC (Type 3 Primary Distributor - 70kph)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0356	0.3125	0.0000	0.7218	1.3884	1.8454	3.2618	1.0734	0.1170	0.7626	1.4010	2.8612	4.5493	0.0000	4.9668	0.3428
RSP	0.0021	0.0000	0.0000	0.0277	0.0379	0.0691	0.1226	0.0577	0.0078	0.0383	0.1362	0.2487	0.2334	0.0000	0.0558	0.0070

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 23-00)

Traffic (Hour: 23-00)

Hour: 23-00				Flow Rate (veh./hr)																% of Total Flow																
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
1	Yip Hing St	1	20	10	5	0	0	0	0	5	0	0	0	0	0	0	0	0	0	50.00	25.00	0.00	0.00	0.00	0.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	Tong Bin Lane	1	25	15	5	0	0	0	0	5	0	0	0	0	0	0	0	0	0	60.00	20.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	Tong Bin Lane (near J/Wong Chuk	1	55	25	10	0	5	0	5	10	0	0	0	0	0	0	0	0	0	45.45	18.18	0.00	9.09	0.00	9.09	18.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	Yip Kan St	1	60	25	10	0	5	5	5	10	0	0	0	0	0	0	0	0	0	41.67	16.67	0.00	8.33	8.33	8.33	16.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	Wong Chuk Hang Road	2	885	365	145	0	80	50	10	25	40	20	15	15	10	10	5	65	30	41.24	16.38	0.00	9.04	5.65	1.13	2.82	4.52	2.26	1.69	1.69	1.13	1.13	0.56	7.34	3.39
6	Wong Chuk Hang Road	2	1020	420	165	5	100	55	10	25	50	20	20	15	10	10	5	75	35	41.18	16.18	0.49	9.80	5.39	0.98	2.45	4.90	1.96	1.96	1.47	0.98	0.98	0.49	7.35	3.43
7	Wong Chuk Hang Road	2	435	120	70	0	30	20	5	5	45	10	10	10	5	5	5	85	10	27.59	16.09	0.00	6.90	4.60	1.15	1.15	10.34	2.30	2.30	2.30	1.15	1.15	1.15	19.54	2.30
8	Wong Chuk Hang Road(flyover)	3	585	275	95	0	60	35	10	20	15	10	10	5	5	5	0	15	25	47.01	16.24	0.00	10.26	5.98	1.71	3.42	2.56	1.71	1.71	0.85	0.85	0.85	0.00	2.56	4.27
9	Wong Chuk Hang Road	2	620	300	95	0	30	15	5	15	20	15	15	10	10	10	10	65	5	48.39	15.32	0.00	4.84	2.42	0.81	2.42	3.23	2.42	2.42	1.61	1.61	1.61	1.61	10.48	0.81
10	Wong Chuk Hang Road	2	465	220	70	0	20	15	5	10	15	10	10	10	10	10	10	45	5	47.31	15.05	0.00	4.30	3.23	1.08	2.15	3.23	2.15	2.15	2.15	2.15	2.15	2.15	9.68	1.08
11	Wong Chuk Hang Road	2	375	180	55	0	15	10	5	10	15	10	5	10	5	5	5	40	5	48.00	14.67	0.00	4.00	2.67	1.33	2.67	4.00	2.67	1.33	2.67	1.33	1.33	1.33	10.67	1.33
12	Wong Chuk Hang Road(flyover)	3	720	335	120	0	75	45	10	25	20	15	10	10	5	5	0	15	30	46.53	16.67	0.00	10.42	6.25	1.39	3.47	2.78	2.08	1.39	1.39	0.69	0.69	0.00	2.08	4.17
13	Wong Chuk Hang Road	2	410	45	50	0	20	10	0	0	70	5	0	5	5	5	15	175	5	10.98	12.20	0.00	4.88	2.44	0.00	0.00	17.07	1.22	0.00	1.22	1.22	1.22	3.66	42.68	1.22
14	Wong Chuk Hang Road	2	215	55	35	0	15	10	0	5	20	5	5	5	5	5	5	40	5	25.58	16.28	0.00	6.98	4.65	0.00	2.33	9.30	2.33	2.33	2.33	2.33	2.33	2.33	18.60	2.33
15	Wong Chuk Hang Road	2	920	380	145	5	90	50	10	25	45	20	15	15	10	10	5	65	30	41.30	15.76	0.54	9.78	5.43	1.09	2.72	4.89	2.17	1.63	1.63	1.09	1.09	0.54	7.07	3.26
16	Nam Long Shan Road	1	555	255	75	0	25	15	5	10	30	10	10	10	10	10	10	65	15	45.95	13.51	0.00	4.50	2.70	0.90	1.80	5.41	1.80	1.80	1.80	1.80	1.80	1.80	11.71	2.70
17	Heung Yip Road	1	130	65	10	0	15	10	0	5	0	10	5	5	0	0	0	0	5	50.00	7.69	0.00	11.54	7.69	0.00	3.85	0.00	7.69	3.85	3.85	0.00	0.00	0.00	0.00	3.85
18	Heung Yip Road	1	175	85	15	0	20	15	0	5	0	10	10	5	0	5	0	0	5	48.57	8.57	0.00	11.43	8.57	0.00	2.86	0.00	5.71	5.71	2.86	0.00	2.86	0.00	0.00	2.86
19	Heung Yip Road	1	225	110	20	0	30	15	0	5	0	10	10	5	5	5	0	0	10	48.89	8.89	0.00	13.33	6.67	0.00	2.22	0.00	4.44	4.44	2.22	2.22	2.22	0.00	0.00	4.44
20	Yip Fat St	1	105	50	10	0	15	10	0	5	0	5	5	0	0	0	0	0	5	47.62	9.52	0.00	14.29	9.52	0.00	4.76	0.00	4.76	4.76	0.00	0.00	0.00	0.00	0.00	4.76
21	Heung Yip Road	1	110	60	10	0	15	10	0	0	0	5	5	0	0	0	0	0	5	54.55	9.09	0.00	13.64	9.09	0.00	0.00	0.00	4.55	4.55	0.00	0.00	0.00	0.00	0.00	4.55
22	Yip Fat St	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	Yip Fat St	1	65	35	5	0	10	5	0	0	0	5	5	0	0	0	0	0	0	53.85	7.69	0.00	15.38	7.69	0.00	0.00	0.00	7.69	7.69	0.00	0.00	0.00	0.00	0.00	0.00
24	Heung Yip Road	1	105	55	10	0	15	10	0	0	0	5	5	0	0	0	0	0	5	52.38	9.52	0.00	14.29	9.52	0.00	0.00	0.00	4.76	4.76	0.00	0.00	0.00	0.00	0.00	4.76
25	Heung Yip Road	1	130	70	15	0	15	10	0	5	0	5	5	0	0	0	0	0	5	53.85	11.54	0.00	11.54	7.69	0.00	3.85	0.00	3.85	3.85	0.00	0.00	0.00	0.00	0.00	3.85
26	Heung Yip Road	1	165	90	20	0	15	10	0	5	0	10	5	5	0	0	0	0	5	54.55	12.12	0.00	9.09	6.06	0.00	3.03	0.00	6.06	3.03	3.03	0.00	0.00	0.00	0.00	3.03
27	Heung Yip Road	1	40	25	5	0	5	5	0	0	0	0	0	0	0	0	0	0	0	62.50	12.50	0.00	12.50	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	Heung Yip Road	1	60	30	5	0	5	5	0	0	0	5	5	0	0	0	0	0	5	50.00	8.33	0.00	8.33	8.33	0.00	0.00	0.00	8.33	8.33	0.00	0.00	0.00	0.00	0.00	8.33
29	Heung Yip Road	1	85	45	10	0	10	5	0	0	0	5	5	0	0	0	0	0	5	52.94	11.76	0.00	11.76	5.88	0.00	0.00	0.00	5.88	5.88	0.00	0.00	0.00	0.00	0.00	5.88
30	Nam Long Shan Road	1	15	0	0	0	0	0	0	0	5	0	0	0	0	0	0	10	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.33	0.00	0.00	0.00	0.00	0.00	0.00	66.67	0.00
31	Nam Long Shan Road	1	175	95	25	0	10	5	0	0	5	5	5	5	0	0	5	10	5	54.29	14.29	0.00	5.71	2.86	0.00	0.00	2.86	2.86	2.86	2.86	0.00	0.00	2.86	5.71	2.86
32	Nam Long Shan Road	1	180	95	25	0	10	5	0	5	5	5	5	5	0	0	5	10	5	52.78	13.89	0.00	5.56	2.78	0.00	2.78	2.78	2.78	2.78	2.78	0.00	0.00	2.78	5.56	2.78
33	Welfare Road	1	20	15	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	Welfare Road	1	15	10	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66.67	33.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	Shum Wan Road	1	95	30	15	0	5	5	0	0	5	5	5	5	5	5	5	5	0	31.58	15.79	0.00	5.26	5.26	0.00	0.00	5.26	5.26	5.26	5.26	5.26	5.26	5.26	5.26	0.00
36	Shum Wan Road	1	95	35	15	0	5	5	0	0	5	5	5	5	5	5	0	5	0	36.84	15.79	0.00	5.26	5.26	0.00	0.00	5.26	5.26	5.26	5.26	5.26	5.26	0.00	5.26	0.00
37	Shum Wan Pier Drive	1	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38	Nam Long Shan Road	1	180	100	25	0	10	5	0	5	5	5	5	5	0	0	0	10	5	55.56	13.89	0.00	5.56	2.78	0.00	2.78	2.78	2.78	2.78	2.78	0.00	0.00	0.00	5.56	2.78
39	Nam Long Shan Road	1	25	20	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40	Nam Long Shan Road	1	30	25	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	83.33	16.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
41	Police School Road	1	170	95	25	0	10	5	0	0	5	5	5	5	0	0	0	10	5	55.88	14.71	0.00	5.88	2.94	0.00	0.00	2.94	2.94	2.94	2.94	0.00	0.00	0.00	5.88	2.94
42#	Police School Road		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######

Calculation of Composite NOx and RSP Emission Rate due to Open Road Traffic in the Vicinity of the Site (Hour: 23-00)

Emission Factor Calculations (Hour: 00-01)

Hour: 23-00				% of Total Flow x Emission Factor (NOx)																	% of Total Flow x Emission Factor (RSP)																		Composite Emission Factor (g/veh·km)	
Road No.	Road	Road Type	Flow (veh./hr)	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	NOx	RSP
1	Yip Hing St	1	20	2.40	10.58	0.00	0.00	0.00	0.00	105.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.00	5.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.185	0.062
2	Tong Bin Lane	1	25	2.87	8.46	0.00	0.00	0.00	0.00	84.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	4.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.957	0.051
3	Tong Bin Lane (near J/Wong Chuk	1	55	2.18	7.69	0.00	7.50	0.00	22.16	76.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.51	0.00	1.35	4.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.163	0.064
4	Yip Kan St	1	60	2.00	7.05	0.00	6.88	15.87	20.32	70.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.47	0.49	1.23	3.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.224	0.064
5	Wong Chuk Hang Road	2	885	1.78	6.32	0.00	6.76	9.68	2.49	10.87	4.48	0.32	1.38	3.07	4.16	6.60	3.21	43.19	1.17	0.17	0.00	0.00	0.42	0.27	0.13	0.52	0.36	0.03	0.06	0.23	0.28	0.32	0.03	0.45	0.03	1.055	0.033
6	Wong Chuk Hang Road	2	1020	1.78	6.24	0.27	7.34	9.24	2.16	9.43	4.86	0.27	1.59	2.66	3.61	5.72	2.78	43.24	1.19	0.17	0.00	0.01	0.46	0.26	0.11	0.45	0.39	0.03	0.07	0.20	0.24	0.28	0.02	0.45	0.03	1.024	0.032
7	Wong Chuk Hang Road	2	435	1.19	6.20	0.00	5.16	7.88	2.54	4.42	10.25	0.32	1.87	4.16	4.23	6.71	6.52	114.92	0.79	0.11	0.00	0.00	0.32	0.22	0.13	0.21	0.82	0.03	0.09	0.31	0.28	0.33	0.05	1.20	0.02	1.772	0.041
8	Wong Chuk Hang Road(flyover)	3	585	1.67	5.07	0.00	7.40	8.31	3.15	11.15	2.75	0.20	1.30	1.20	2.44	3.89	0.00	12.73	1.47	0.10	0.00	0.00	0.28	0.23	0.12	0.42	0.15	0.01	0.07	0.12	0.21	0.20	0.00	0.14	0.03	0.627	0.021
9	Wong Chuk Hang Road	2	620	2.09	5.91	0.00	3.62	4.15	1.78	9.31	3.20	0.34	1.97	2.92	5.93	9.42	9.15	61.66	0.28	0.20	0.00	0.00	0.23	0.12	0.09	0.44	0.26	0.03	0.09	0.22	0.39	0.46	0.07	0.64	0.01	1.217	0.032
10	Wong Chuk Hang Road	2	465	2.05	5.80	0.00	3.22	5.53	2.37	8.27	3.20	0.30	1.75	3.89	7.91	12.56	12.20	56.91	0.37	0.19	0.00	0.00	0.20	0.15	0.12	0.39	0.26	0.03	0.08	0.29	0.52	0.61	0.10	0.59	0.01	1.263	0.036
11	Wong Chuk Hang Road	2	375	2.08	5.65	0.00	2.99	4.57	2.94	10.26	3.96	0.37	1.08	4.82	4.90	7.79	7.56	62.73	0.46	0.19	0.00	0.00	0.19	0.13	0.15	0.49	0.32	0.04	0.05	0.36	0.32	0.38	0.06	0.65	0.01	1.222	0.033
12	Wong Chuk Hang Road(flyover)	3	720	1.66	5.21	0.00	7.52	8.68	2.56	11.32	2.98	0.24	1.06	1.95	1.99	3.16	0.00	10.35	1.43	0.10	0.00	0.00	0.29	0.24	0.10	0.43	0.16	0.02	0.05	0.19	0.17	0.16	0.00	0.12	0.03	0.601	0.020
13	Wong Chuk Hang Road	2	410	0.47	4.70	0.00	3.65	4.18	0.00	0.00	16.91	0.17	0.00	2.21	4.49	7.12	20.76	251.02	0.42	0.04	0.00	0.00	0.23	0.12	0.00	0.00	1.36	0.02	0.00	0.16	0.30	0.35	0.17	2.62	0.01	3.161	0.054
14	Wong Chuk Hang Road	2	215	1.11	6.28	0.00	5.22	7.97	0.00	8.95	9.21	0.33	1.89	4.21	8.55	13.58	13.19	109.42	0.80	0.10	0.00	0.00	0.33	0.22	0.00	0.43	0.74	0.03	0.09	0.31	0.57	0.66	0.11	1.14	0.02	1.907	0.047
15	Wong Chuk Hang Road	2	920	1.79	6.08	0.30	7.32	9.32	2.40	10.46	4.85	0.30	1.33	2.95	4.00	6.35	3.08	41.55	1.13	0.17	0.00	0.01	0.46	0.26	0.12	0.50	0.39	0.03	0.06	0.22	0.26	0.31	0.02	0.43	0.03	1.032	0.033
16	Nam Long Shan Road	1	555	2.20	5.72	0.00	3.72	5.15	2.20	7.60	5.34	0.27	1.54	3.67	7.44	11.82	11.32	75.58	1.01	0.25	0.00	0.00	0.25	0.16	0.13	0.43	0.55	0.03	0.08	0.28	0.50	0.63	0.09	0.86	0.04	1.446	0.043
17	Heung Yip Road	1	130	2.40	3.25	0.00	9.52	14.65	0.00	16.23	0.00	1.17	3.30	7.83	0.00	0.00	0.00	0.00	1.44	0.27	0.00	0.00	0.65	0.45	0.00	0.91	0.00	0.14	0.17	0.60	0.00	0.00	0.00	0.00	0.06	0.598	0.033
18	Heung Yip Road	1	175	2.33	3.63	0.00	9.43	16.33	0.00	12.06	0.00	0.87	4.90	5.82	0.00	18.75	0.00	0.00	1.07	0.26	0.00	0.00	0.65	0.51	0.00	0.68	0.00	0.10	0.25	0.44	0.00	1.00	0.00	0.00	0.04	0.752	0.039
19	Heung Yip Road	1	225	2.34	3.76	0.00	11.00	12.70	0.00	9.38	0.00	0.68	3.81	4.53	9.18	14.58	0.00	0.00	1.66	0.27	0.00	0.00	0.75	0.39	0.00	0.53	0.00	0.08	0.19	0.35	0.62	0.77	0.00	0.00	0.06	0.736	0.040
20	Yip Fat St	1	105	2.28	4.03	0.00	11.79	18.14	0.00	20.09	0.00	0.73	4.08	0.00	0.00	0.00	0.00	0.00	1.78	0.26	0.00	0.00	0.81	0.56	0.00	1.13	0.00	0.09	0.21	0.00	0.00	0.00	0.00	0.00	0.07	0.629	0.031
21	Heung Yip Road	1	110	2.61	3.85	0.00	11.25	17.32	0.00	0.00	0.00	0.69	3.89	0.00	0.00	0.00	0.00	0.00	1.70	0.30	0.00	0.00	0.77	0.54	0.00	0.00	0.00	0.08	0.20	0.00	0.00	0.00	0.00	0.00	0.07	0.413	0.019
22	Yip Fat St	1	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-
23	Yip Fat St	1	65	2.58	3.25	0.00	12.69	14.65	0.00	0.00	0.00	1.17	6.59	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.87	0.45	0.00	0.00	0.00	0.14	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.409	0.021
24	Heung Yip Road	1	105	2.51	4.03	0.00	11.79	18.14	0.00	0.00	0.00	0.73	4.08	0.00	0.00	0.00	0.00	0.00	1.78	0.29	0.00	0.00	0.81	0.56	0.00	0.00	0.00	0.09	0.21	0.00	0.00	0.00	0.00	0.00	0.07	0.431	0.020
25	Heung Yip Road	1	130	2.58	4.88	0.00	9.52	14.65	0.00	16.23	0.00	0.59	3.30	0.00	0.00	0.00	0.00	0.00	1.44	0.29	0.00	0.00	0.65	0.45	0.00	0.91	0.00	0.07	0.17	0.00	0.00	0.00	0.00	0.00	0.06	0.532	0.026
26	Heung Yip Road	1	165	2.61	5.13	0.00	7.50	11.54	0.00	12.79	0.00	0.92	2.60	6.17	0.00	0.00	0.00	0.00	1.13	0.30	0.00	0.00	0.51	0.36	0.00	0.72	0.00	0.11	0.13	0.47	0.00	0.00	0.00	0.00	0.04	0.504	0.026
27	Heung Yip Road	1	40	2.99	5.29	0.00	10.31	23.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.71	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.424	0.018
28	Heung Yip Road	1	60	2.40	3.53	0.00	6.88	15.87	0.00	0.00	0.00	1.27	7.14	0.00	0.00	0.00	0.00	0.00	3.12	0.27	0.00	0.00	0.47	0.49	0.00	0.00	0.00	0.15	0.36	0.00	0.00	0.00	0.00	0.00	0.12	0.402	0.019
29	Heung Yip Road	1	85	2.54	4.98	0.00	9.71	11.21	0.00	0.00	0.00	0.90	5.04	0.00	0.00	0.00	0.00	0.00	2.20	0.29	0.00	0.00	0.67	0.35	0.00	0.00	0.00	0.11	0.25	0.00	0.00	0.00	0.00	0.00	0.08	0.366	0.017
30	Nam Long Shan Road	1	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32.90	0.00	0.00	0.00	0.00	0.00	0.00	430.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.38	0.00	0.00	0.00	0.00	0.00	0.00	4.87	0.00	4.631	0.083
31	Nam Long Shan Road	1	175	2.60	6.04	0.00	4.71	5.44	0.00	0.00	2.82	0.44	2.45	5.82	0.00	0.00	17.95	36.87	1.07	0.30	0.00	0.00	0.32	0.17	0.00	0.00	0.29	0.05	0.12	0.44	0.00	0.00	0.15	0.42	0.04	0.862	0.023
32	Nam Long Shan Road	1	180	2.53	5.88	0.00	4.58	5.29	0.00	11.72	2.74	0.42	2.38	5.66	0.00	0.00	17.45	35.85	1.04	0.29	0.00	0.00	0.31	0.16	0.00	0.66	0.28	0.05	0.12	0.43	0.00	0.00	0.15	0.41	0.04	0.955	0.029
33	Welfare Road	1	20	3.59	10.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.142	0.004
34	Welfare Road	1	15	3.19	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.173	0.004
35	Shum Wan Road	1	95	1.51	6.68	0.00	4.34	10.03	0.00	0.00	5.20	0.80	4.51	10.72	21.73	34.54	33.06	33.96	0.00	0.17	0.00	0.00	0.30	0.31	0.00	0.00	0.53	0.10	0.23	0.82	1.47	1.83	0.28	0.38	0.00	1.671	0.064
36	Shum Wan Road	1	95	1.76	6.68	0.00	4.34	10.03	0.00	0.00	5.20	0.80	4.51	10.72	21.73	34.54	0.00	33.96	0.00	0.20	0.00	0.00	0.30	0.31	0.00	0.00	0.53	0.10	0.23	0.82	1.47	1.83	0.00	0.38	0.00	1.343	0.062
37	Shum Wan Pier Drive	1	5	4.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.048	0.005
38	Nam Long Shan Road	1	180	2.66	5.88	0.00	4.58	5.29	0.00	11.72	2.74	0.42	2.38	5.66	0.00	0.00	0.00	35.85	1.04	0.30	0.00	0.00	0.31	0.16	0.00	0.66	0.28	0.05	0.12	0.43	0.00	0.00	0.00	0.41	0.04	0.782	0.028
39	Nam Long Shan Road	1	25	3.83	8.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.123	0.004
40	Nam Long Shan Road	1	30	3.99	7.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.110	0.005
41	Police School Road	1	170	2.68	6.22	0.00	4.85	5.60	0.00	0.00	2.90	0.45	2.52	5.99	0.00	0.00	0.00	37.96	1.10	0.30	0.00	0.00	0.33	0.17	0.00	0.00	0.30	0.05	0.13	0.46	0.00	0.00	0.00	0.43	0.04	0.703	0.022
42#	Police School Road		NA	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	######	#VALUE!	#VALUE!

Emission Factors from EMFAC (Type 1 Local Road - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0479	0.4230	0.0000	0.8251	1.9049	2.4381	4.2194	0.9871	0.1526	0.8569	2.0370	4.1296	6.5627	6.2817	6.4530	0.3743
RSP	0.0054	0.0000	0.0000	0.0566	0.0591	0.1481	0.2375	0.1013	0.0181	0.0431	0.1556	0.2787	0.3486	0.0525	0.0731	0.0143

Emission Factors from EMFAC (Type 2 Primary Distributor - 50km/h)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0432	0.3855	0.5482	0.7482	1.7142	2.2070	3.8479	0.9906	0.1401	0.8129	1.8091	3.6778	5.8390	5.6734	5.8811	0.3457
RSP	0.0040	0.0000	0.0201	0.0469	0.0476	0.1122	0.1831	0.0796	0.0141	0.0376	0.1353	0.2436	0.2834	0.0459	0.0613	0.0079

Emission Factors from EMFAC (Type 3 Primary Distributor - 70kph)

	PC	Taxi	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC
NOx	0.0356	0.3125	0.0000	0.7216	1.3882	1.8450	3.2611	1.0733	0.1170	0.7625	1.4007	2.8606	4.5483	0.0000	4.9658	0.3428
RSP	0.0021	0.0000	0.0000	0.0277	0.0379	0.0691	0.1226	0.0577	0.0078	0.0383	0.1362	0.2487	0.2334	0.0000	0.0558	0.0070