APPENDIX 3.12

PREDICTED CUMULATIVE POLLUTANT CONCENTRATIONS AT IDENTIFIED REPRESENTATIVE AIR SENSITIVE RECEIVERS DURING PROJECT OPERATION

Appendix 3.12 – Predicted Cumulative Pollution Concentrations at Identified Representative ASRs during Project Operation

						NO2																
						Annual Averaged (μg/m^3)																
						Receptor Height (in mAG)																
ASR ID	**ASR Description**	**X**	**Y**	**PATH Grid**	**Base mPD**	**1.5**	**5**	**10**	**15**	**20**	**25**	**30**	**40**	**50**	**60**	**70**	**80**	**90**	**100**	**110**	**120**	**130**	**140**
A01	Luen Cheong Can Centre	814743	827962	19,41	6.50	25.76	25.54	24.96	24.16	23.44	22.87	22.40	21.72	21.28	20.96	20.69	20.43	-	-	-	-	-	-
A02	Nan Fung Industrial City – Block 1	814696	827861	19,41	6.10	27.51	27.45	26.17	25.00	24.06	23.30	22.68	21.76	21.17	20.76	-	-	-	-	-	-	-	-
A03	Nan Fung Industrial City – Block 2	814693	827735	19,41	6.10	27.78	27.41	26.82	25.64	24.43	23.40	22.60	21.53	20.91	20.52	-	-	-	-	-	-	-	-
A04	Nan Fung Industrial City – Block 5	814712	827700	19,41	6.10	28.35	27.88	26.94	25.56	24.25	23.19	22.40	21.39	20.82	20.46	-	-	-	-	-	-	-	-
A05	The Esplanade	814876	827493	19,41	11.30	24.92	23.89	22.88	22.23	21.75	21.38	21.08	20.63	20.34	20.14	19.98	-	-	-	-	-	-	-
A06	Lung Yat Estate – Kin Lung House	814744	827537	19,41	4.90	26.59	25.90	24.66	23.52	22.65	22.02	21.54	20.90	20.50	20.23	20.03	19.87	19.74	19.61	-	-	-	-
A07	Church of Christ in China Hoh Fuk Tong Primary School	814680	827502	19,41	4.50	25.83	25.15	24.53	23.72	22.93	22.23	-	-	-	-	-	-	-	-	-	-	-	-
A08	Lung Mun Oasis – Block 5	814628	827433	19,40	4.20	28.48	27.84	26.82	26.39	25.71	25.06	24.47	23.60	23.06	22.71	22.48	22.31	-	-	-	-	-	-
A09	Lung Mun Oasis – Block 3	814584	827345	19,40	4.20	27.42	27.09	26.40	26.00	25.38	24.79	24.27	23.45	22.92	22.59	22.37	22.21	-	-	-	-	-	-
A10	Glorious Garden – Block 1	814442	827157	19,40	4.80	26.52	26.29	25.89	25.35	24.82	24.36	23.95	23.27	22.77	22.44	22.22	22.06	-	-	-	-	-	-
A11	Hong Chi Morninglight School Tuen Mun	814455	827531	19,41	12.90	25.85	25.41	24.56	23.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A12	Independent Commission Against Corruption Training Camp	814508	827590	19,41	12.70	26.52	26.61	25.40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A13	Ju Ching Chu Secondary School (Tuen Mun)	814542	827695	19,41	10.70	26.82	27.17	26.08	24.79	23.65	22.75	-	-	-	-	-	-	-	-	-	-	-	-
A14	Yan Chai Hospital No.2 Secondary School	814584	827808	19,41	10.70	26.77	26.67	25.70	24.65	23.69	22.89	-	-	-	-	-	-	-	-	-	-	-	-
A15	Tsing Shan Tsuen 107A	814612	827882	19,41	10.00	26.78	26.45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A16	Tsing Shan Tsuen 83	814688	828036	19,41	12.50	27.37	26.39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A17	Hong King Garden – Block A	815963	827400	20,40	5.90	29.05	28.32	27.64	26.68	25.70	24.80	24.05	23.01	22.40	22.00	-	-	-	-	-	-	-	-
A18	Kam Fai Garden – Block 1	816080	827163	21,40	7.80	22.79	22.63	22.44	21.93	21.44	20.98	20.54	19.84	19.38	19.08	-	-	-	-	-	-	-	-
A19	Dragon Inn Court – Block 2	816157	826823	21,40	25.00	21.25	20.99	20.58	20.17	19.80	19.49	19.24	18.89	-	-	-	-	-	-	-	-	-	-
A20	Palm Cove – Tower 5	815978	826943	20,40	18.10	25.05	24.74	24.28	23.82	23.39	23.01	22.66	22.11	21.74	21.50	-	-	-	-	-	-	-	-
A21	Sam Shing Temple	815940	827109	20,40	30.20	24.79	24.37	23.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A22	Hanford Garden – Block 1	815764	827110	20,40	4.50	31.14	30.05	27.99	26.35	25.29	24.57	24.01	23.17	22.55	22.11	21.79	-	-	-	-	-	-	-
A23	Siu Lun Court – Sui Lun House	815742	827188	20,40	5.10	30.71	29.86	28.25	26.77	25.68	24.88	24.24	23.29	22.62	22.15	21.82	21.59	21.43	21.31	-	-	-	-
A24	Chung Sing Benevolent Society Mrs. Aw Boon Haw Secondary School	815868	827206	20,40	6.10	33.58	31.12	28.42	26.77	25.76	24.97	-	-	-	-	-	-	-	-	-	-	-	-
A25	Tuen Mun Siu Lun Complex	815921	827277	20,40	5.80	31.35	31.53	32.12	30.14	27.57	25.80	24.69	23.36	22.61	-	-	-	-	-	-	-	-	-
P01	Yip Wong Road PRH Phase 1	814786	827638	19,41	5.40	29.87	28.91	26.91	24.95	23.54	22.61	21.99	21.21	20.75	20.44	20.22	20.03	19.87	19.72	19.58	19.46	19.36	19.29
P02	Yip Wong Road PRH Phase 2	814871	827594	19,41	5.40	29.14	28.18	26.23	24.47	23.25	22.45	21.89	21.17	20.73	20.45	20.24	20.06	19.90	19.75	19.61	19.49	19.39	19.31
P03	Proposed G/IC	815899	827315	20,40	8.00	31.37	30.93	30.92	28.90	26.95	25.53	24.53	-	-	-	-	-	-	-	-	-	-	-
AQO Standard						**40**	**40**	**40**	**40**	**40**	**40**	**40**	**40**	**40**	**40**	**40**	**40**	**40**	**40**	**40**	**40**	**40**	**40**

Appendix 3.12 – Predicted Cumulative Pollution Concentrations at Identified Representative ASRs during Project Operation

						NO2																
						19th Highest Hourly Averaged (μg/m^3)																
						Receptor Height (in mAG)																
ASR ID	ASR Description	X	Y	PATH Grid	Base mPD	1.5	5	10	15	20	25	30	40	50	60	70	80	90	100	110	120	130	140
A01	Luen Cheong Can Centre	814743	827962	19,41	6.50	115.45	115.18	114.17	112.80	109.54	108.75	104.69	101.75	99.48	97.14	98.02	96.92	-	-	-	-	-	-
A02	Nan Fung Industrial City – Block 1	814696	827861	19,41	6.10	122.95	121.54	117.97	114.45	110.26	107.08	104.35	100.43	98.82	97.49	-	-	-	-	-	-	-	-
A03	Nan Fung Industrial City – Block 2	814693	827735	19,41	6.10	126.16	125.65	123.12	118.07	112.44	109.00	105.32	102.01	99.79	98.72	-	-	-	-	-	-	-	-
A04	Nan Fung Industrial City – Block 5	814712	827700	19,41	6.10	126.72	125.85	124.11	119.86	113.64	109.51	106.54	101.84	99.32	98.59	-	-	-	-	-	-	-	-
A05	The Esplanade	814876	827493	19,41	11.30	126.57	123.35	117.83	113.63	110.73	106.06	103.50	99.80	98.99	97.22	96.65	-	-	-	-	-	-	-
A06	Lung Yat Estate – Kin Lung House	814744	827537	19,41	4.90	125.98	124.04	118.75	115.69	111.95	107.47	105.03	100.42	97.77	97.09	96.63	96.43	96.11	94.99	-	-	-	-
A07	Church of Christ in China Hoh Fuk Tong Primary School	814680	827502	19,41	4.50	122.42	119.37	120.23	116.86	112.84	110.83	-	-	-	-	-	-	-	-	-	-	-	-
A08	Lung Mun Oasis – Block 5	814628	827433	19,40	4.20	127.98	125.94	121.31	119.13	116.15	112.64	109.28	104.27	101.69	101.08	100.15	99.83	-	-	-	-	-	-
A09	Lung Mun Oasis – Block 3	814584	827345	19,40	4.20	126.75	125.61	123.91	123.02	118.83	114.62	110.34	104.46	101.37	100.52	99.89	99.83	-	-	-	-	-	-
A10	Glorious Garden – Block 1	814442	827157	19,40	4.80	129.96	128.31	126.60	123.56	118.13	114.96	110.67	105.33	102.91	101.68	100.39	99.93	-	-	-	-	-	-
A11	Hong Chi Morninglight School Tuen Mun	814455	827531	19,41	12.90	122.83	119.58	112.97	109.32	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A12	Independent Commission Against Corruption Training Camp	814508	827590	19,41	12.70	124.43	125.07	121.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A13	Ju Ching Chu Secondary School (Tuen Mun)	814542	827695	19,41	10.70	125.67	128.42	123.74	117.21	110.66	107.72	-	-	-	-	-	-	-	-	-	-	-	-
A14	Yan Chai Hospital No.2 Secondary School	814584	827808	19,41	10.70	118.48	118.39	114.15	110.57	108.50	104.00	-	-	-	-	-	-	-	-	-	-	-	-
A15	Tsing Shan Tsuen 107A	814612	827882	19,41	10.00	119.29	118.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A16	Tsing Shan Tsuen 83	814688	828036	19,41	12.50	118.45	116.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A17	Hong King Garden – Block A	815963	827400	20,40	5.90	128.32	125.55	124.92	119.36	116.01	109.26	104.42	102.81	102.26	100.97	-	-	-	-	-	-	-	-
A18	Kam Fai Garden – Block 1	816080	827163	21,40	7.80	115.07	113.44	110.19	102.87	100.09	99.61	98.48	95.02	93.29	93.20	-	-	-	-	-	-	-	-
A19	Dragon Inn Court – Block 2	816157	826823	21,40	25.00	102.86	101.51	100.48	99.07	97.00	95.41	94.90	93.23	-	-	-	-	-	-	-	-	-	-
A20	Palm Cove – Tower 5	815978	826943	20,40	18.10	115.61	113.76	113.21	111.47	108.59	107.28	106.12	103.23	100.47	99.77	-	-	-	-	-	-	-	-
A21	Sam Shing Temple	815940	827109	20,40	30.20	112.05	110.43	108.22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A22	Hanford Garden – Block 1	815764	827110	20,40	4.50	138.65	134.58	125.75	116.96	113.64	110.33	108.41	104.92	103.74	102.12	100.58	-	-	-	-	-	-	-
A23	Siu Lun Court – Sui Lun House	815742	827188	20,40	5.10	128.84	128.09	122.38	116.47	113.92	112.40	111.20	106.19	104.03	102.66	100.30	99.80	99.55	99.42	-	-	-	-
A24	Chung Sing Benevolent Society Mrs. Aw Boon Haw Secondary School	815868	827206	20,40	6.10	136.81	130.04	124.39	117.01	114.17	113.08	-	-	-	-	-	-	-	-	-	-	-	-
A25	Tuen Mun Siu Lun Complex	815921	827277	20,40	5.80	130.69	131.19	136.85	128.66	120.64	114.85	113.13	105.35	103.44	-	-	-	-	-	-	-	-	-
P01	Yip Wong Road PRH Phase 1	814786	827638	19,41	5.40	133.76	132.80	128.62	119.88	112.82	109.67	104.74	101.89	99.62	98.08	97.27	96.82	96.17	94.99	94.98	94.98	94.97	94.97
P02	Yip Wong Road PRH Phase 2	814871	827594	19,41	5.40	133.64	132.59	125.16	116.52	111.25	108.97	105.04	100.53	98.69	97.68	97.61	96.65	96.65	95.22	94.98	94.98	94.97	94.97
P03	Proposed G/IC	815899	827315	20,40	8.00	131.68	129.63	128.64	123.26	118.72	114.10	111.47	-	-	-	-	-	-	-	-	-	-	-
AQO Standard						**200**	**200**	**200**	**200**	**200**	**200**	**200**	**200**	**200**	**200**	**200**	**200**	**200**	**200**	**200**	**200**	**200**	**200**

Appendix 3.12 – Predicted Cumulative Pollution Concentrations at Identified Representative ASRs during Project Operation

						RSP																	
						Annual Averaged (μg/m³)																	
						Receptor Height (in mAG)																	
ASR ID	ASR Description	X	Y	PATH Grid	Base mPD	1.5	5	10	15	20	25	30	40	50	60	70	80	90	100	110	120	130	140
A01	Luen Cheong Can Centre	814743	827962	19,41	6.50	27.58	27.57	27.53	27.49	27.45	27.41	27.39	27.35	27.34	27.32	27.31	27.29	-	-	-	-	-	-
A02	Nan Fung Industrial City – Block 1	814696	827861	19,41	6.10	27.71	27.71	27.62	27.55	27.49	27.44	27.40	27.35	27.32	27.30	-	-	-	-	-	-	-	-
A03	Nan Fung Industrial City – Block 2	814693	827735	19,41	6.10	27.74	27.71	27.68	27.60	27.52	27.45	27.40	27.33	27.30	27.27	-	-	-	-	-	-	-	-
A04	Nan Fung Industrial City – Block 5	814712	827700	19,41	6.10	27.78	27.75	27.69	27.59	27.51	27.44	27.39	27.32	27.29	27.27	-	-	-	-	-	-	-	-
A05	The Esplanade	814876	827493	19,41	11.30	27.56	27.49	27.42	27.38	27.35	27.32	27.30	27.28	27.26	27.25	27.24	-	-	-	-	-	-	-
A06	Lung Yat Estate – Kin Lung House	814744	827537	19,41	4.90	27.66	27.61	27.53	27.45	27.40	27.36	27.33	27.29	27.27	27.25	27.24	27.23	27.22	27.21	-	-	-	-
A07	Church of Christ in China Hoh Fuk Tong Primary School	814680	827502	19,41	4.50	27.60	27.56	27.51	27.46	27.41	27.37	-	-	-	-	-	-	-	-	-	-	-	-
A08	Lung Mun Oasis – Block 5	814628	827433	19,40	4.20	27.96	27.94	27.89	27.87	27.83	27.78	27.75	27.69	27.66	27.64	27.62	27.61	-	-	-	-	-	-
A09	Lung Mun Oasis – Block 3	814584	827345	19,40	4.20	27.90	27.89	27.85	27.83	27.80	27.76	27.73	27.68	27.65	27.62	27.61	27.60	-	-	-	-	-	-
A10	Glorious Garden – Block 1	814442	827157	19,40	4.80	27.86	27.85	27.82	27.79	27.75	27.72	27.70	27.66	27.63	27.61	27.59	27.58	-	-	-	-	-	-
A11	Hong Chi Morninglight School Tuen Mun	814455	827531	19,41	12.90	27.58	27.55	27.50	27.44	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A12	Independent Commission Against Corruption Training Camp	814508	827590	19,41	12.70	27.64	27.64	27.56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A13	Ju Ching Chu Secondary School (Tuen Mun)	814542	827695	19,41	10.70	27.67	27.69	27.62	27.53	27.45	27.40	-	-	-	-	-	-	-	-	-	-	-	-
A14	Yan Chai Hospital No.2 Secondary School	814584	827808	19,41	10.70	27.67	27.66	27.59	27.52	27.46	27.41	-	-	-	-	-	-	-	-	-	-	-	-
A15	Tsing Shan Tsuen 107A	814612	827882	19,41	10.00	27.67	27.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A16	Tsing Shan Tsuen 83	814688	828036	19,41	12.50	27.68	27.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A17	Hong King Garden – Block A	815963	827400	20,40	5.90	27.96	27.91	27.87	27.79	27.71	27.64	27.57	27.49	27.44	27.41	-	-	-	-	-	-	-	-
A18	Kam Fai Garden – Block 1	816080	827163	21,40	7.80	27.19	27.18	27.17	27.12	27.08	27.04	27.00	26.94	26.90	26.86	-	-	-	-	-	-	-	-
A19	Dragon Inn Court – Block 2	816157	826823	21,40	25.00	27.05	27.03	27.00	26.96	26.93	26.91	26.88	26.86	-	-	-	-	-	-	-	-	-	-
A20	Palm Cove – Tower 5	815978	826943	20,40	18.10	27.65	27.63	27.59	27.55	27.52	27.48	27.46	27.41	27.38	27.36	-	-	-	-	-	-	-	-
A21	Sam Shing Temple	815940	827109	20,40	30.20	27.63	27.60	27.55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A22	Hanford Garden – Block 1	815764	827110	20,40	4.50	28.10	28.02	27.86	27.73	27.65	27.60	27.55	27.49	27.44	27.41	27.38	-	-	-	-	-	-	-
A23	Siu Lun Court – Sui Lun House	815742	827188	20,40	5.10	28.08	28.01	27.88	27.76	27.68	27.62	27.57	27.50	27.45	27.41	27.39	27.37	27.36	27.35	-	-	-	-
A24	Chung Sing Benevolent Society Mrs. Aw Boon Haw Secondary School	815868	827206	20,40	6.10	28.34	28.13	27.92	27.78	27.70	27.64	-	-	-	-	-	-	-	-	-	-	-	-
A25	Tuen Mun Siu Lun Complex	815921	827277	20,40	5.80	28.19	28.21	28.27	28.10	27.87	27.72	27.62	27.52	27.46	-	-	-	-	-	-	-	-	-
P01	Yip Wong Road PRH Phase 1	814786	827638	19,41	5.40	27.89	27.82	27.69	27.56	27.46	27.40	27.36	27.32	27.29	27.27	27.26	27.24	27.23	27.22	27.20	27.19	27.18	27.17
P02	Yip Wong Road PRH Phase 2	814871	827594	19,41	5.40	27.87	27.80	27.66	27.54	27.45	27.40	27.36	27.32	27.29	27.28	27.26	27.25	27.24	27.22	27.21	27.19	27.18	27.18
P03	Proposed G/IC	815899	827315	20,40	8.00	28.18	28.15	28.16	27.98	27.81	27.69	27.61	-	-	-	-	-	-	-	-	-	-	-
AQO Standard						**50**	**50**	**50**	**50**	**50**	**50**	**50**	**50**	**50**	**50**	**50**	**50**	**50**	**50**	**50**	**50**	**50**	**50**

Appendix 3.12 – Predicted Cumulative Pollution Concentrations at Identified Representative ASRs during Project Operation

						RSP																
						10th Highest Daily Averaged (μg/m^3)																
						Receptor Height (in mAG)																
ASR ID	**ASR Description**	**X**	**Y**	**PATH Grid**	**Base mPD**	**1.5**	**5**	**10**	**15**	**20**	**25**	**30**	**40**	**50**	**60**	**70**	**80**	**90**	**100**	**110**	**120**	**130**	**140**
A01	Luen Cheong Can Centre	814743	827962	19,41	6.50	70.99	70.98	70.96	70.93	70.91	70.89	70.87	70.86	70.86	70.87	70.86	70.84	-	-	-	-	-	-
A02	Nan Fung Industrial City – Block 1	814696	827861	19,41	6.10	71.14	71.14	71.08	71.03	70.99	70.95	70.93	70.88	70.86	70.84	-	-	-	-	-	-	-	-
A03	Nan Fung Industrial City – Block 2	814693	827735	19,41	6.10	71.22	71.20	71.17	71.12	71.06	71.00	70.96	70.89	70.85	70.83	-	-	-	-	-	-	-	-
A04	Nan Fung Industrial City – Block 5	814712	827700	19,41	6.10	71.27	71.25	71.20	71.13	71.06	71.00	70.95	70.88	70.85	70.83	-	-	-	-	-	-	-	-
A05	The Esplanade	814876	827493	19,41	11.30	71.31	71.21	71.09	71.01	70.95	70.91	70.88	70.84	70.81	70.80	70.79	-	-	-	-	-	-	-
A06	Lung Yat Estate – Kin Lung House	814744	827537	19,41	4.90	71.36	71.30	71.18	71.07	70.99	70.94	70.90	70.85	70.82	70.81	70.79	70.78	70.76	70.73	-	-	-	-
A07	Church of Christ in China Hoh Fuk Tong Primary School	814680	827502	19,41	4.50	71.21	71.16	71.11	71.05	70.98	70.93	-	-	-	-	-	-	-	-	-	-	-	-
A08	Lung Mun Oasis – Block 5	814628	827433	19,40	4.20	70.93	70.89	70.83	70.79	70.74	70.68	70.64	70.57	70.52	70.49	70.46	70.44	-	-	-	-	-	-
A09	Lung Mun Oasis – Block 3	814584	827345	19,40	4.20	70.81	70.79	70.74	70.71	70.66	70.62	70.58	70.53	70.49	70.46	70.44	70.42	-	-	-	-	-	-
A10	Glorious Garden – Block 1	814442	827157	19,40	4.80	70.65	70.64	70.61	70.58	70.55	70.53	70.51	70.47	70.44	70.42	70.41	70.39	-	-	-	-	-	-
A11	Hong Chi Morninglight School Tuen Mun	814455	827531	19,41	12.90	71.25	71.21	71.15	71.08	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A12	Independent Commission Against Corruption Training Camp	814508	827590	19,41	12.70	71.31	71.31	71.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A13	Ju Ching Chu Secondary School (Tuen Mun)	814542	827695	19,41	10.70	71.33	71.35	71.25	71.13	71.04	70.97	-	-	-	-	-	-	-	-	-	-	-	-
A14	Yan Chai Hospital No.2 Secondary School	814584	827808	19,41	10.70	71.34	71.31	71.21	71.12	71.03	70.97	-	-	-	-	-	-	-	-	-	-	-	-
A15	Tsing Shan Tsuen 107A	814612	827882	19,41	10.00	71.28	71.23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A16	Tsing Shan Tsuen 83	814688	828036	19,41	12.50	71.24	71.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A17	Hong King Garden – Block A	815963	827400	20,40	5.90	70.02	69.97	69.92	69.84	69.77	69.71	69.65	69.58	69.54	69.51	-	-	-	-	-	-	-	-
A18	Kam Fai Garden – Block 1	816080	827163	21,40	7.80	68.94	68.94	68.93	68.90	68.87	68.83	68.80	68.75	68.71	68.69	-	-	-	-	-	-	-	-
A19	Dragon Inn Court – Block 2	816157	826823	21,40	25.00	68.91	68.88	68.84	68.79	68.75	68.72	68.70	68.67	-	-	-	-	-	-	-	-	-	-
A20	Palm Cove – Tower 5	815978	826943	20,40	18.10	69.83	69.80	69.76	69.72	69.67	69.63	69.59	69.53	69.49	69.47	-	-	-	-	-	-	-	-
A21	Sam Shing Temple	815940	827109	20,40	30.20	69.80	69.76	69.72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A22	Hanford Garden – Block 1	815764	827110	20,40	4.50	70.33	70.23	70.04	69.89	69.79	69.73	69.68	69.61	69.56	69.52	69.49	-	-	-	-	-	-	-
A23	Siu Lun Court – Sui Lun House	815742	827188	20,40	5.10	70.42	70.33	70.15	69.99	69.87	69.78	69.72	69.63	69.57	69.53	69.50	69.48	69.47	69.46	-	-	-	-
A24	Chung Sing Benevolent Society Mrs. Aw Boon Haw Secondary School	815868	827206	20,40	6.10	70.59	70.35	70.09	69.92	69.82	69.74	-	-	-	-	-	-	-	-	-	-	-	-
A25	Tuen Mun Siu Lun Complex	815921	827277	20,40	5.80	70.30	70.34	70.44	70.23	69.96	69.79	69.69	69.58	69.53	-	-	-	-	-	-	-	-	-
P01	Yip Wong Road PRH Phase 1	814786	827638	19,41	5.40	71.39	71.34	71.25	71.14	71.06	70.99	70.94	70.89	70.85	70.83	70.81	70.80	70.78	70.75	70.71	70.68	70.66	70.64
P02	Yip Wong Road PRH Phase 2	814871	827594	19,41	5.40	71.38	71.34	71.24	71.14	71.06	71.00	70.95	70.89	70.85	70.82	70.81	70.80	70.79	70.75	70.71	70.68	70.65	70.64
P03	Proposed G/IC	815899	827315	20,40	8.00	70.29	70.28	70.32	70.10	69.90	69.76	69.68	-	-	-	-	-	-	-	-	-	-	-
AQO Standard						**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**

Appendix 3.12 – Predicted Cumulative Pollution Concentrations at Identified Representative ASRs during Project Operation

						FSP																	
						Annual Averaged (μg/m³)																	
						Receptor Height (in mAG)																	
ASR ID	ASR Description	X	Y	PATH Grid	Base mPD	1.5	5	10	15	20	25	30	40	50	60	70	80	90	100	110	120	130	140
A01	Luen Cheong Can Centre	814743	827962	19,41	6.50	15.79	15.78	15.75	15.71	15.67	15.64	15.62	15.59	15.57	15.56	15.55	15.53	-	-	-	-	-	-
A02	Nan Fung Industrial City – Block 1	814696	827861	19,41	6.10	15.91	15.91	15.83	15.76	15.71	15.67	15.63	15.58	15.55	15.54	-	-	-	-	-	-	-	-
A03	Nan Fung Industrial City – Block 2	814693	827735	19,41	6.10	15.94	15.92	15.88	15.81	15.74	15.67	15.63	15.57	15.53	15.51	-	-	-	-	-	-	-	-
A04	Nan Fung Industrial City – Block 5	814712	827700	19,41	6.10	15.98	15.95	15.89	15.81	15.73	15.66	15.62	15.56	15.53	15.51	-	-	-	-	-	-	-	-
A05	The Esplanade	814876	827493	19,41	11.30	15.78	15.71	15.65	15.61	15.58	15.56	15.54	15.52	15.50	15.49	15.48	-	-	-	-	-	-	-
A06	Lung Yat Estate – Kin Lung House	814744	827537	19,41	4.90	15.87	15.82	15.75	15.68	15.63	15.59	15.56	15.53	15.51	15.49	15.48	15.47	15.46	15.45	-	-	-	-
A07	Church of Christ in China Hoh Fuk Tong Primary School	814680	827502	19,41	4.50	15.81	15.77	15.73	15.68	15.64	15.60	-	-	-	-	-	-	-	-	-	-	-	-
A08	Lung Mun Oasis – Block 5	814628	827433	19,40	4.20	15.81	15.79	15.74	15.72	15.68	15.65	15.61	15.56	15.53	15.51	15.50	15.49	-	-	-	-	-	-
A09	Lung Mun Oasis – Block 3	814584	827345	19,40	4.20	15.75	15.74	15.71	15.69	15.66	15.63	15.60	15.55	15.52	15.50	15.49	15.48	-	-	-	-	-	-
A10	Glorious Garden – Block 1	814442	827157	19,40	4.80	15.72	15.70	15.68	15.65	15.62	15.59	15.57	15.53	15.50	15.48	15.47	15.46	-	-	-	-	-	-
A11	Hong Chi Morninglight School Tuen Mun	814455	827531	19,41	12.90	15.80	15.77	15.72	15.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A12	Independent Commission Against Corruption Training Camp	814508	827590	19,41	12.70	15.85	15.85	15.77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A13	Ju Ching Chu Secondary School (Tuen Mun)	814542	827695	19,41	10.70	15.88	15.90	15.83	15.75	15.68	15.62	-	-	-	-	-	-	-	-	-	-	-	-
A14	Yan Chai Hospital No.2 Secondary School	814584	827808	19,41	10.70	15.88	15.87	15.81	15.74	15.68	15.64	-	-	-	-	-	-	-	-	-	-	-	-
A15	Tsing Shan Tsuen 107A	814612	827882	19,41	10.00	15.88	15.85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A16	Tsing Shan Tsuen 83	814688	828036	19,41	12.50	15.88	15.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A17	Hong King Garden – Block A	815963	827400	20,40	5.90	15.89	15.85	15.81	15.74	15.66	15.59	15.54	15.46	15.41	15.38	-	-	-	-	-	-	-	-
A18	Kam Fai Garden – Block 1	816080	827163	21,40	7.80	15.43	15.42	15.41	15.37	15.33	15.29	15.25	15.20	15.16	15.13	-	-	-	-	-	-	-	-
A19	Dragon Inn Court – Block 2	816157	826823	21,40	25.00	15.31	15.29	15.25	15.22	15.19	15.17	15.15	15.12	-	-	-	-	-	-	-	-	-	-
A20	Palm Cove – Tower 5	815978	826943	20,40	18.10	15.61	15.59	15.55	15.52	15.49	15.46	15.43	15.39	15.36	15.34	-	-	-	-	-	-	-	-
A21	Sam Shing Temple	815940	827109	20,40	30.20	15.59	15.56	15.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A22	Hanford Garden – Block 1	815764	827110	20,40	4.50	16.03	15.95	15.80	15.68	15.61	15.56	15.52	15.46	15.42	15.38	15.36	-	-	-	-	-	-	-
A23	Siu Lun Court – Sui Lun House	815742	827188	20,40	5.10	16.00	15.94	15.82	15.71	15.64	15.58	15.54	15.47	15.42	15.39	15.37	15.35	15.34	15.33	-	-	-	-
A24	Chung Sing Benevolent Society Mrs. Aw Boon Haw Secondary School	815868	827206	20,40	6.10	16.24	16.05	15.85	15.73	15.66	15.60	-	-	-	-	-	-	-	-	-	-	-	-
A25	Tuen Mun Siu Lun Complex	815921	827277	20,40	5.80	16.10	16.12	16.18	16.02	15.81	15.67	15.58	15.48	15.43	-	-	-	-	-	-	-	-	-
P01	Yip Wong Road PRH Phase 1	814786	827638	19,41	5.40	16.08	16.02	15.89	15.77	15.69	15.63	15.60	15.55	15.53	15.51	15.50	15.49	15.47	15.46	15.45	15.43	15.42	15.42
P02	Yip Wong Road PRH Phase 2	814871	827594	19,41	5.40	16.07	16.00	15.87	15.75	15.68	15.63	15.59	15.55	15.53	15.52	15.50	15.49	15.48	15.47	15.45	15.44	15.43	15.42
P03	Proposed G/IC	815899	827315	20,40	8.00	16.10	16.07	16.07	15.91	15.76	15.65	15.57	-	-	-	-	-	-	-	-	-	-	-
AQO Standard						**25**	**25**	**25**	**25**	**25**	**25**	**25**	**25**	**25**	**25**	**25**	**25**	**25**	**25**	**25**	**25**	**25**	**25**

Appendix 3.12 – Predicted Cumulative Pollution Concentrations at Identified Representative ASRs during Project Operation

						FSP																	
						19th Highest Daily Averaged (μg/m^3)																	
						Receptor Height (in mAG)																	
ASR ID	ASR Description	X	Y	PATH Grid	Base mPD	1.5	5	10	15	20	25	30	40	50	60	70	80	90	100	110	120	130	140
A01	Luen Cheong Can Centre	814743	827962	19,41	6.50	38.61	38.60	38.57	38.53	38.50	38.47	38.44	38.39	38.36	38.33	38.31	38.29	-	-	-	-	-	-
A02	Nan Fung Industrial City – Block 1	814696	827861	19,41	6.10	38.70	38.69	38.63	38.58	38.53	38.49	38.46	38.40	38.35	38.32	-	-	-	-	-	-	-	-
A03	Nan Fung Industrial City – Block 2	814693	827735	19,41	6.10	38.86	38.83	38.78	38.69	38.60	38.53	38.47	38.39	38.34	38.31	-	-	-	-	-	-	-	-
A04	Nan Fung Industrial City – Block 5	814712	827700	19,41	6.10	38.94	38.90	38.82	38.71	38.61	38.53	38.46	38.38	38.33	38.30	-	-	-	-	-	-	-	-
A05	The Esplanade	814876	827493	19,41	11.30	38.65	38.60	38.53	38.47	38.43	38.39	38.36	38.32	38.29	38.27	38.26	-	-	-	-	-	-	-
A06	Lung Yat Estate – Kin Lung House	814744	827537	19,41	4.90	38.63	38.60	38.56	38.50	38.45	38.41	38.38	38.33	38.30	38.27	38.26	38.25	38.24	38.24	-	-	-	-
A07	Church of Christ in China Hoh Fuk Tong Primary School	814680	827502	19,41	4.50	38.57	38.53	38.49	38.44	38.40	38.37	-	-	-	-	-	-	-	-	-	-	-	-
A08	Lung Mun Oasis – Block 5	814628	827433	19,40	4.20	39.37	39.34	39.29	39.26	39.22	39.18	39.15	39.10	39.06	39.04	39.02	39.00	-	-	-	-	-	-
A09	Lung Mun Oasis – Block 3	814584	827345	19,40	4.20	39.28	39.27	39.23	39.21	39.17	39.14	39.12	39.07	39.04	39.01	39.00	38.98	-	-	-	-	-	-
A10	Glorious Garden – Block 1	814442	827157	19,40	4.80	39.26	39.25	39.23	39.20	39.17	39.14	39.12	39.06	39.02	38.99	38.97	38.96	-	-	-	-	-	-
A11	Hong Chi Morninglight School Tuen Mun	814455	827531	19,41	12.90	38.69	38.64	38.57	38.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A12	Independent Commission Against Corruption Training Camp	814508	827590	19,41	12.70	38.77	38.76	38.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A13	Ju Ching Chu Secondary School (Tuen Mun)	814542	827695	19,41	10.70	38.83	38.86	38.75	38.63	38.53	38.45	-	-	-	-	-	-	-	-	-	-	-	-
A14	Yan Chai Hospital No.2 Secondary School	814584	827808	19,41	10.70	38.91	38.89	38.79	38.68	38.59	38.52	-	-	-	-	-	-	-	-	-	-	-	-
A15	Tsing Shan Tsuen 107A	814612	827882	19,41	10.00	38.87	38.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A16	Tsing Shan Tsuen 83	814688	828036	19,41	12.50	38.78	38.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A17	Hong King Garden – Block A	815963	827400	20,40	5.90	39.12	39.09	39.04	38.99	38.93	38.89	38.86	38.81	38.79	38.78	-	-	-	-	-	-	-	-
A18	Kam Fai Garden – Block 1	816080	827163	21,40	7.80	38.64	38.64	38.64	38.62	38.60	38.58	38.56	38.53	38.50	38.49	-	-	-	-	-	-	-	-
A19	Dragon Inn Court – Block 2	816157	826823	21,40	25.00	38.70	38.68	38.65	38.62	38.58	38.56	38.53	38.50	-	-	-	-	-	-	-	-	-	-
A20	Palm Cove – Tower 5	815978	826943	20,40	18.10	39.07	39.05	39.02	38.99	38.96	38.92	38.89	38.84	38.80	38.78	-	-	-	-	-	-	-	-
A21	Sam Shing Temple	815940	827109	20,40	30.20	39.10	39.07	39.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A22	Hanford Garden – Block 1	815764	827110	20,40	4.50	39.51	39.42	39.25	39.12	39.04	38.99	38.95	38.90	38.86	38.82	38.80	-	-	-	-	-	-	-
A23	Siu Lun Court – Sui Lun House	815742	827188	20,40	5.10	39.69	39.59	39.39	39.23	39.12	39.05	39.00	38.93	38.88	38.84	38.81	38.79	38.78	38.76	-	-	-	-
A24	Chung Sing Benevolent Society Mrs. Aw Boon Haw Secondary School	815868	827206	20,40	6.10	39.88	39.63	39.39	39.24	39.16	39.09	-	-	-	-	-	-	-	-	-	-	-	-
A25	Tuen Mun Siu Lun Complex	815921	827277	20,40	5.80	39.65	39.69	39.81	39.62	39.35	39.17	39.06	38.94	38.89	-	-	-	-	-	-	-	-	-
P01	Yip Wong Road PRH Phase 1	814786	827638	19,41	5.40	39.08	39.02	38.87	38.72	38.61	38.52	38.46	38.38	38.33	38.30	38.28	38.27	38.26	38.25	38.24	38.24	38.23	38.23
P02	Yip Wong Road PRH Phase 2	814871	827594	19,41	5.40	39.06	38.99	38.85	38.71	38.61	38.53	38.47	38.39	38.34	38.30	38.28	38.27	38.26	38.25	38.24	38.24	38.23	38.23
P03	Proposed G/IC	815899	827315	20,40	8.00	39.56	39.57	39.64	39.44	39.24	39.11	39.02	-	-	-	-	-	-	-	-	-	-	-
AQO Standard						**50**	**50**	**50**	**50**	**50**	**50**	**50**	**50**	**50**	**50**	**50**	**50**	**50**	**50**	**50**	**50**	**50**	**50**