

APPENDIX 4.20
Detailed Operation Air Quality Impacts at Existing
ASRs in Year 2029 (without Project)

ASRs ID	PATH Grid	Description of ASRs	Existing/ Planned Uses	Nature of Use	ASR Coordinates		Flag Pole Receiver Height, mAG	Predicted Cumulative Impacts for Year 2029 (µg/m ³) (Without Development)					
					x	y		NO ₂		RSP		FSP	
					Easting	Northing		1-h (AQO=200) 19 th highest	Annual (AQO=40)	24-h (AQO=100) 10 th highest	Annual (AQO=50)	24-h (AQO=75) 10 th highest	Annual (AQO=35)
R56_01	21,43	Hing Tak School	Existing	Education Institution	816181.6	830201.1	1.5	109.12	26.28	84.23	37.13	63.24	26.42
R56_02	21,43	Hing Tak School	Existing	Education Institution	816181.6	830201.1	5	108.00	25.95	84.19	37.10	63.20	26.39
R56_03	21,43	Hing Tak School	Existing	Education Institution	816181.6	830201.1	10	107.50	25.26	84.11	37.06	63.14	26.35
R56_04	21,43	Hing Tak School	Existing	Education Institution	816181.6	830201.1	15	107.22	24.63	84.05	37.02	63.09	26.32
R56_05	21,43	Hing Tak School	Existing	Education Institution	816181.6	830201.1	20	106.79	24.19	84.01	36.99	63.06	26.30
R56_06	21,43	Hing Tak School	Existing	Education Institution	816181.6	830201.1	25	106.45	23.89	83.99	36.96	63.04	26.28
R56_07	21,43	Hing Tak School	Existing	Education Institution	816181.6	830201.1	30	105.49	23.67	83.97	36.93	63.02	26.27
R57_01	21,43	Simon and Eleanor Kwok Building, Lingnan University	Existing	Education Institution	816255.6	830329.9	1.5	123.34	29.43	84.30	37.25	63.27	26.51
R57_02	21,43	Simon and Eleanor Kwok Building, Lingnan University	Existing	Education Institution	816255.6	830329.9	5	119.67	27.98	84.26	37.18	63.24	26.45
R57_03	21,43	Simon and Eleanor Kwok Building, Lingnan University	Existing	Education Institution	816255.6	830329.9	10	112.68	25.78	84.21	37.10	63.20	26.38
R57_04	21,43	Simon and Eleanor Kwok Building, Lingnan University	Existing	Education Institution	816255.6	830329.9	15	108.83	24.67	84.16	37.05	63.17	26.34
R57_05	21,43	Simon and Eleanor Kwok Building, Lingnan University	Existing	Education Institution	816255.6	830329.9	20	107.36	24.20	84.13	37.02	63.15	26.32
R57_06	21,43	Simon and Eleanor Kwok Building, Lingnan University	Existing	Education Institution	816255.6	830329.9	25	106.35	23.95	84.11	36.99	63.13	26.31
R57_07	21,43	Simon and Eleanor Kwok Building, Lingnan University	Existing	Education Institution	816255.6	830329.9	30	105.88	23.76	84.09	36.96	63.12	26.30
R57_08	21,43	Simon and Eleanor Kwok Building, Lingnan University	Existing	Education Institution	816255.6	830329.9	50	102.89	22.97	84.02	36.82	63.08	26.21
R57_09	21,43	Simon and Eleanor Kwok Building, Lingnan University	Existing	Education Institution	816255.6	830329.9	80	99.50	21.83	83.81	36.63	62.88	26.03
R57_10	21,43	Simon and Eleanor Kwok Building, Lingnan University	Existing	Education Institution	816255.6	830329.9	120	98.30	21.50	83.74	36.59	62.82	25.98
R58_01	21,43	Lingnan University Multi Purpose Outdoor Sports Ground	Existing	Education Institution	816204.2	830393.4	1.5	115.04	29.37	84.52	37.29	63.46	26.55
R59_01	21,43	Kwan Tai House, Fu Tai Estate	Existing	Residential	816265.8	830505.7	1.5	123.22	27.71	84.45	37.24	63.36	26.50
R59_02	21,43	Kwan Tai House, Fu Tai Estate	Existing	Residential	816265.8	830505.7	5	120.89	27.33	84.44	37.20	63.35	26.47
R59_03	21,43	Kwan Tai House, Fu Tai Estate	Existing	Residential	816265.8	830505.7	10	118.52	26.57	84.49	37.16	63.36	26.43
R59_04	21,43	Kwan Tai House, Fu Tai Estate	Existing	Residential	816265.8	830505.7	15	112.63	25.88	84.49	37.12	63.34	26.40
R59_05	21,43	Kwan Tai House, Fu Tai Estate	Existing	Residential	816265.8	830505.7	20	110.04	25.29	84.48	37.08	63.33	26.37
R59_06	21,43	Kwan Tai House, Fu Tai Estate	Existing	Residential	816265.8	830505.7	25	108.61	24.80	84.44	37.04	63.30	26.35
R59_07	21,43	Kwan Tai House, Fu Tai Estate	Existing	Residential	816265.8	830505.7	30	107.11	24.37	84.39	37.00	63.28	26.33
R59_08	21,43	Kwan Tai House, Fu Tai Estate	Existing	Residential	816265.8	830505.7	50	102.64	23.03	84.15	36.83	63.18	26.22
R59_09	21,43	Kwan Tai House, Fu Tai Estate	Existing	Residential	816265.8	830505.7	80	100.19	21.81	83.79	36.64	62.85	26.03
R59_10	21,43	Kwan Tai House, Fu Tai Estate	Existing	Residential	816265.8	830505.7	120	98.43	21.49	83.74	36.59	62.82	25.99
R60_01	21,44	Block 6, 18 Rosewood	Existing	Residential	816111.4	830540.8	1.5	141.24	37.71	83.28	36.87	62.59	26.36
R60_02	21,44	Block 6, 18 Rosewood	Existing	Residential	816111.4	830540.8	5	133.13	35.39	83.10	36.74	62.42	26.23
R60_03	21,44	Block 6, 18 Rosewood	Existing	Residential	816111.4	830540.8	10	125.96	32.35	82.86	36.58	62.22	26.09
R61_01	21,44	Block 10, 18 Rosewood	Existing	Residential	816154.8	830576.2	1.5	142.22	37.11	83.17	36.86	62.48	26.34
R61_02	21,44	Block 10, 18 Rosewood	Existing	Residential	816154.8	830576.2	5	131.43	35.26	83.06	36.75	62.37	26.24
R61_03	21,44	Block 10, 18 Rosewood	Existing	Residential	816154.8	830576.2	10	124.55	32.51	82.84	36.60	62.20	26.10
R62_01	21,44	House no. 60, To Yuen Wai	Existing	Residential	816321.1	830730.3	1.5	126.42	32.24	82.87	36.66	62.08	26.14
R62_02	21,44	House no. 60, To Yuen Wai	Existing	Residential	816321.1	830730.3	5	125.32	31.43	82.86	36.61	62.07	26.09
R62_03	21,44	House no. 60, To Yuen Wai	Existing	Residential	816321.1	830730.3	10	122.27	29.60	82.82	36.50	62.09	25.99
R63_01	21,44	House no. 75, To Yuen Wai	Existing	Residential	816199.3	830761.7	1.5	135.56	34.16	82.88	36.74	62.11	26.23
R63_02	21,44	House no. 75, To Yuen Wai	Existing	Residential	816199.3	830761.7	5	132.73	32.89	82.87	36.66	62.09	26.16
R63_03	21,44	House no. 75, To Yuen Wai	Existing	Residential	816199.3	830761.7	10	127.43	30.60	82.88	36.54	62.13	26.04
R64_01	21,44	House no. 37, San Hing Tsuen	Existing	Residential	816026.7	830878.3	1.5	122.77	32.17	83.09	36.52	62.26	26.05
R64_02	21,44	House no. 37, San Hing Tsuen	Existing	Residential	816026.7	830878.3	5	122.09	31.45	83.06	36.49	62.23	26.01
R64_03	21,44	House no. 37, San Hing Tsuen	Existing	Residential	816026.7	830878.3	10	120.77	29.94	83.09	36.42	62.27	25.95
R65_01	21,44	House no. 120, Opulent Villa	Existing	Residential	816222.8	830927.4	1.5	126.83	30.18	83.14	36.48	62.19	25.99
R65_02	21,44	House no. 120, Opulent Villa	Existing	Residential	816222.8	830927.4	5	125.17	29.73	83.15	36.46	62.19	25.96
R65_03	21,44	House no. 120, Opulent Villa	Existing	Residential	816222.8	830927.4	10	120.94	28.83	83.28	36.44	62.31	25.93
R66_01	21,44	Block 1, E Lu	Existing	Residential	816281.5	831059.3	1.5	127.94	29.92	82.74	36.53	61.93	26.03
R66_02	21,44	Block 1, E Lu	Existing	Residential	816281.5	831059.3	5	122.60	28.82	82.71	36.46	61.90	25.97
R66_03	21,44	Block 1, E Lu	Existing	Residential	816281.5	831059.3	10	118.91	27.20	82.69	36.37	61.88	25.89
R67_01	21,44	Block A, Lingrade Garden	Existing	Residential	816206.7	831111.8	1.5	120.89	29.99	82.58	36.49	61.86	26.01
R67_02	21,44	Block A, Lingrade Garden	Existing	Residential	816206.7	831111.8	5	120.07	29.56	82.54	36.46	61.82	25.98
R67_03	21,44	Block A, Lingrade Garden	Existing	Residential	816206.7	831111.8	10	118.50	28.48	82.47	36.40	61.78	25.92

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					Easting	Northing		1-h (AQO=200) 19 th highest	Annual (AQO=40)	24-h (AQO=100) 10 th highest	Annual (AQO=50)	24-h (AQO=75) 10 th highest	Annual (AQO=35)
R68_01	19,43	Tower 2, Goodrich Garden	Existing	Residential	814726.4	829874.6	1.5	112.50	28.35	86.81	36.71	65.16	26.11
R68_02	19,43	Tower 2, Goodrich Garden	Existing	Residential	814726.4	829874.6	5	112.28	28.11	86.79	36.69	65.15	26.10
R68_03	19,43	Tower 2, Goodrich Garden	Existing	Residential	814726.4	829874.6	10	110.75	27.55	86.75	36.66	65.11	26.07
R68_04	19,43	Tower 2, Goodrich Garden	Existing	Residential	814726.4	829874.6	15	109.57	26.94	86.72	36.63	65.08	26.04
R68_05	19,43	Tower 2, Goodrich Garden	Existing	Residential	814726.4	829874.6	20	108.92	26.39	86.69	36.60	65.05	26.02
R68_06	19,43	Tower 2, Goodrich Garden	Existing	Residential	814726.4	829874.6	25	108.43	25.93	86.66	36.58	65.03	25.99
R68_07	19,43	Tower 2, Goodrich Garden	Existing	Residential	814726.4	829874.6	30	107.63	25.56	86.64	36.56	65.01	25.98
R68_08	19,43	Tower 2, Goodrich Garden	Existing	Residential	814726.4	829874.6	50	105.45	24.67	86.59	36.51	64.96	25.94
R68_09	19,43	Tower 2, Goodrich Garden	Existing	Residential	814726.4	829874.6	80	105.02	24.17	86.55	36.47	64.92	25.90
R68_10	19,43	Tower 2, Goodrich Garden	Existing	Residential	814726.4	829874.6	120	105.02	23.95	86.52	36.46	64.90	25.89
R69_01	19,43	Eight Regency	Existing	Residential	814715.5	829843.9	1.5	113.38	28.51	86.80	36.71	65.16	26.12
R69_02	19,43	Eight Regency	Existing	Residential	814715.5	829843.9	5	112.64	28.20	86.78	36.69	65.14	26.10
R69_03	19,43	Eight Regency	Existing	Residential	814715.5	829843.9	10	111.87	27.53	86.74	36.66	65.10	26.07
R69_04	19,43	Eight Regency	Existing	Residential	814715.5	829843.9	15	110.31	26.91	86.71	36.63	65.07	26.04
R69_05	19,43	Eight Regency	Existing	Residential	814715.5	829843.9	20	109.73	26.38	86.68	36.60	65.04	26.01
R69_06	19,43	Eight Regency	Existing	Residential	814715.5	829843.9	25	108.66	25.93	86.65	36.58	65.02	25.99
R69_07	19,43	Eight Regency	Existing	Residential	814715.5	829843.9	30	107.68	25.56	86.63	36.56	65.00	25.98
R69_08	19,43	Eight Regency	Existing	Residential	814715.5	829843.9	50	105.35	24.67	86.59	36.51	64.96	25.94
R69_09	19,43	Eight Regency	Existing	Residential	814715.5	829843.9	80	105.02	24.17	86.55	36.47	64.92	25.91
R69_10	19,43	Eight Regency	Existing	Residential	814715.5	829843.9	120	105.02	23.95	86.53	36.46	64.90	25.89
R70_01	19,43	Siu Pong Court, Tin King Estate	Existing	Residential	814625.4	829785.3	1.5	115.64	30.73	86.93	36.81	65.27	26.21
R70_02	19,43	Siu Pong Court, Tin King Estate	Existing	Residential	814625.4	829785.3	5	114.81	29.87	86.87	36.76	65.22	26.16
R70_03	19,43	Siu Pong Court, Tin King Estate	Existing	Residential	814625.4	829785.3	10	112.71	28.34	86.77	36.68	65.13	26.09
R70_04	19,43	Siu Pong Court, Tin King Estate	Existing	Residential	814625.4	829785.3	15	111.90	27.29	86.71	36.63	65.07	26.04
R70_05	19,43	Siu Pong Court, Tin King Estate	Existing	Residential	814625.4	829785.3	20	110.04	26.58	86.67	36.60	65.04	26.01
R70_06	19,43	Siu Pong Court, Tin King Estate	Existing	Residential	814625.4	829785.3	25	108.39	26.06	86.65	36.58	65.02	25.99
R70_07	19,43	Siu Pong Court, Tin King Estate	Existing	Residential	814625.4	829785.3	30	107.49	25.64	86.63	36.56	65.00	25.98
R70_08	19,43	Siu Pong Court, Tin King Estate	Existing	Residential	814625.4	829785.3	50	105.58	24.67	86.58	36.51	64.95	25.94
R70_09	19,43	Siu Pong Court, Tin King Estate	Existing	Residential	814625.4	829785.3	80	105.02	24.16	86.55	36.47	64.92	25.90
R70_10	19,43	Siu Pong Court, Tin King Estate	Existing	Residential	814625.4	829785.3	120	105.02	23.94	86.52	36.46	64.90	25.89
R71_01	19,43	Siu Pong Court, Tin King Estate	Existing	Residential	814640.4	829746.5	1.5	115.20	30.31	86.86	36.78	65.21	26.18
R71_02	19,43	Siu Pong Court, Tin King Estate	Existing	Residential	814640.4	829746.5	5	114.72	29.67	86.82	36.74	65.18	26.15
R71_03	19,43	Siu Pong Court, Tin King Estate	Existing	Residential	814640.4	829746.5	10	113.01	28.40	86.75	36.68	65.11	26.09
R71_04	19,43	Siu Pong Court, Tin King Estate	Existing	Residential	814640.4	829746.5	15	111.53	27.36	86.70	36.64	65.06	26.05
R71_05	19,43	Siu Pong Court, Tin King Estate	Existing	Residential	814640.4	829746.5	20	109.93	26.61	86.67	36.60	65.04	26.02
R71_06	19,43	Siu Pong Court, Tin King Estate	Existing	Residential	814640.4	829746.5	25	108.49	26.06	86.65	36.58	65.01	26.00
R71_07	19,43	Siu Pong Court, Tin King Estate	Existing	Residential	814640.4	829746.5	30	107.33	25.63	86.63	36.56	65.00	25.98
R71_08	19,43	Siu Pong Court, Tin King Estate	Existing	Residential	814640.4	829746.5	50	105.38	24.66	86.58	36.51	64.95	25.94
R71_09	19,43	Siu Pong Court, Tin King Estate	Existing	Residential	814640.4	829746.5	80	105.02	24.16	86.55	36.47	64.92	25.90
R71_10	19,43	Siu Pong Court, Tin King Estate	Existing	Residential	814640.4	829746.5	120	105.02	23.95	86.53	36.46	64.90	25.89
R72_01	19,43	Fung Shan Temple	Existing	Religious Institution	814852.5	830470.4	1.5	112.94	27.28	86.75	36.65	65.10	26.06
R72_02	19,43	Fung Shan Temple	Existing	Religious Institution	814852.5	830470.4	5	112.71	26.82	86.74	36.62	65.09	26.04