

Appendix 4.5

**Detailed Construction Dust
Assessment Results
(Unmitigated)**

Result Summary (Cumulative Max. 1-hour TSP)

Unmitigated

ASR ID	Location	Max. 1-hour TSP Concentration at various height (ug/m3)				
		1.5 mAG	5 mAG	10 mAG	15 mAG	20 mAG
A1	Lo Wu Control Point	1590	1466	1298	1160	1027
A2	Village House along Lo Wu Road	1934	1761	1598	1471	1308
A3	Lo Wu Public School	1908	1741	1599	1486	1326
A4	Lo Wu Document Storage Building	1473	1385	1241	1113	990
A5	Village House along Lo Wu Station Road	1159	1071	951	851	754
A6	Food and Environmental Hygiene Department	1362	1241	1104	995	882
A7	Village House along Man Kam To Road	1047	928	826	750	675
A8	Border District Police Headquarter	1047	1017	931	845	762
A9	Village House along Man Kam To Road	1256	1140	1020	924	828
A10	Village House along Man Kam To Road	1703	1580	1534	1481	1328
A11	Village House along Man Kam To Road	1435	1353	1378	1328	1123
A13	Temple	1418	1215	1120	1036	946
A14	Village House along Man Kam To Road	1518	1450	1325	1203	1074
A15	Village House along Man Kam To Road	1911	1734	1595	1486	1327
A16	Village House along Man Kam To Road	1556	1417	1256	1129	997
A17	Village House along Man Kam To Road	1422	1306	1155	1030	908
A18	Ta Kwu Ling Division Border Enforcement Unit Block	1332	1287	1176	1066	952
A19	Village House near Man Kam To Operation Base	1788	1756	1676	1671	1554
A20	Man Kam To Boundary Control Point	1497	1440	1317	1194	1066
A21	Village House to the south of Man Kam To Boundary Control Po	938	931	897	964	886
A22	Hung Kiu San Tsuen	579	578	538	497	458
A23	Village House at San Uk Ling	839	766	676	603	532
A24	Village House along Li Ma Hang Road	816	743	655	586	517
A25	Village House along Muk Wu	686	684	638	589	539
A26	Village House along Li Ma Hang Road	467	462	430	396	361
A28	Village House along Li Ma Hang Road	787	757	688	619	552
A29	Village House at Muk Wu Nga Yiu	1174	1043	745	674	603
A30	Village House at Muk Wu Chuen Yiu (Planned)	2753	1393	865	630	566
A31	Village House at Muk Wu Chuen Yiu	2461	1735	981	625	561
A32	Recreational use – Planned development	3554	1620	839	514	374
A33	Recreational use – Planned development	2415	889	669	462	394
A34	Recreational use – Planned development	2780	1447	829	532	359
A35	Recreational use – Planned development	2076	1191	673	499	386
A36	Recreational use – Planned development	1562	790	662	522	395
A37	House No 28 Ta Kwu Ling Village	1153	1027	723	520	390

Result Summary (Cumulative 10th highest 24-hour RSP)

Unmitigated

ASR ID	Location	10th highest 24-hour RSP Concentration at various height (ug/m3)				
		1.5 mAG	5 mAG	10 mAG	15 mAG	20 mAG
A1	Lo Wu Control Point	102	103	102	101	100
A2	Village House along Lo Wu Road	113	113	113	113	110
A3	Lo Wu Public School	117	117	116	116	114
A4	Lo Wu Document Storage Building	101	102	101	100	99
A5	Village House along Lo Wu Station Road	119	119	118	117	115
A6	Food and Environmental Hygiene Department	135	135	133	131	128
A7	Village House along Man Kam To Road	127	123	119	119	116
A8	Border District Police Headquarter	122	121	121	119	115
A9	Village House along Man Kam To Road	130	127	122	120	120
A10	Village House along Man Kam To Road	159	160	160	158	154
A11	Village House along Man Kam To Road	206	170	143	131	125
A13	Temple	196	154	128	119	111
A14	Village House along Man Kam To Road	129	135	135	121	111
A15	Village House along Man Kam To Road	113	112	108	107	105
A16	Village House along Man Kam To Road	102	102	101	99	97
A17	Village House along Man Kam To Road	103	102	100	98	96
A18	Ta Kwu Ling Division Border Enforcement Unit Block	97	97	97	96	95
A19	Village House near Man Kam To Operation Base	109	110	111	111	108
A20	Man Kam To Boundary Control Point	99	99	99	99	98
A21	Village House to the south of Man Kam To Boundary Control Po	107	107	107	107	107
A22	Hung Kiu San Tsuen	101	99	98	98	98
A23	Village House at San Uk Ling	168	131	104	98	97
A24	Village House along Li Ma Hang Road	170	115	99	96	95
A25	Village House along Muk Wu	91	92	91	91	90
A26	Village House along Li Ma Hang Road	128	123	113	106	101
A28	Village House along Li Ma Hang Road	210	125	101	98	95
A29	Village House at Muk Wu Nga Yiu	102	101	97	94	92
A30	Village House at Muk Wu Chuen Yiu (Planned)	202	147	118	107	98
A31	Village House at Muk Wu Chuen Yiu	149	137	113	101	96
A32	Recreational use – Planned development	99	95	91	90	90
A33	Recreational use – Planned development	107	97	94	91	91
A34	Recreational use – Planned development	97	91	90	90	89
A35	Recreational use – Planned development	97	90	89	89	88
A36	Recreational use – Planned development	93	90	89	89	89
A37	House No 28 Ta Kwu Ling Village	93	91	90	89	88

Result Summary (Cumulative Annual RSP)

Unmitigated

ASR ID	Location	Annual RSP Concentration at various height (ug/m3)				
		1.5 mAG	5 mAG	10 mAG	15 mAG	20 mAG
A1	Lo Wu Control Point	50	50	50	50	50
A2	Village House along Lo Wu Road	53	54	53	53	53
A3	Lo Wu Public School	55	55	55	54	54
A4	Lo Wu Document Storage Building	49	49	49	49	49
A5	Village House along Lo Wu Station Road	51	51	51	51	51
A6	Food and Environmental Hygiene Department	53	53	52	52	52
A7	Village House along Man Kam To Road	53	51	50	49	49
A8	Border District Police Headquarter	50	50	49	49	48
A9	Village House along Man Kam To Road	53	52	51	50	50
A10	Village House along Man Kam To Road	59	59	59	58	57
A11	Village House along Man Kam To Road	88	71	58	53	51
A13	Temple	64	57	52	50	49
A14	Village House along Man Kam To Road	59	60	60	56	52
A15	Village House along Man Kam To Road	55	55	55	54	52
A16	Village House along Man Kam To Road	51	51	51	50	50
A17	Village House along Man Kam To Road	50	50	50	49	49
A18	Ta Kwu Ling Division Border Enforcement Unit Block	52	52	52	51	51
A19	Village House near Man Kam To Operation Base	58	59	59	58	58
A20	Man Kam To Boundary Control Point	52	52	52	51	51
A21	Village House to the south of Man Kam To Boundary Control Po	54	54	53	53	52
A22	Hung Kiu San Tsuen	46	46	46	46	46
A23	Village House at San Uk Ling	65	57	51	49	48
A24	Village House along Li Ma Hang Road	92	62	51	49	48
A25	Village House along Muk Wu	52	52	51	50	49
A26	Village House along Li Ma Hang Road	54	53	50	48	47
A28	Village House along Li Ma Hang Road	107	66	52	49	47
A29	Village House at Muk Wu Nga Yiu	55	55	53	50	49
A30	Village House at Muk Wu Chuen Yiu (Planned)	100	65	55	51	49
A31	Village House at Muk Wu Chuen Yiu	74	65	56	51	49
A32	Recreational use – Planned development	49	46	45	45	44
A33	Recreational use – Planned development	50	47	45	45	44
A34	Recreational use – Planned development	47	45	44	44	44
A35	Recreational use – Planned development	46	44	44	44	44
A36	Recreational use – Planned development	48	46	44	44	44
A37	House No 28 Ta Kwu Ling Village	45	44	44	44	44

Result Summary (Cumulative 10th highest 24-hour FSP)

Unmitigated

ASR ID	Location	10th highest 24-hour FSP Concentration at various height (ug/m3)				
		1.5 mAG	5 mAG	10 mAG	15 mAG	20 mAG
A1	Lo Wu Control Point	65	65	65	65	65
A2	Village House along Lo Wu Road	65	65	65	65	65
A3	Lo Wu Public School	65	65	65	65	65
A4	Lo Wu Document Storage Building	65	65	65	65	65
A5	Village House along Lo Wu Station Road	68	68	68	68	68
A6	Food and Environmental Hygiene Department	67	67	67	67	67
A7	Village House along Man Kam To Road	67	66	66	65	65
A8	Border District Police Headquarter	66	65	65	65	65
A9	Village House along Man Kam To Road	67	67	66	66	66
A10	Village House along Man Kam To Road	71	70	70	70	69
A11	Village House along Man Kam To Road	67	67	66	66	66
A13	Temple	71	67	65	64	64
A14	Village House along Man Kam To Road	65	65	65	65	64
A15	Village House along Man Kam To Road	64	64	64	64	64
A16	Village House along Man Kam To Road	63	63	63	63	63
A17	Village House along Man Kam To Road	64	63	63	63	63
A18	Ta Kwu Ling Division Border Enforcement Unit Block	65	64	64	64	64
A19	Village House near Man Kam To Operation Base	65	65	65	65	65
A20	Man Kam To Boundary Control Point	65	64	64	64	64
A21	Village House to the south of Man Kam To Boundary Control Po	65	65	65	65	64
A22	Hung Kiu San Tsuen	66	66	66	66	66
A23	Village House at San Uk Ling	65	65	65	64	64
A24	Village House along Li Ma Hang Road	64	64	64	64	64
A25	Village House along Muk Wu	64	64	64	64	64
A26	Village House along Li Ma Hang Road	65	65	65	65	65
A28	Village House along Li Ma Hang Road	67	66	65	65	65
A29	Village House at Muk Wu Nga Yiu	66	66	66	65	65
A30	Village House at Muk Wu Chuen Yiu (Planned)	77	72	67	66	65
A31	Village House at Muk Wu Chuen Yiu	70	69	67	66	65
A32	Recreational use – Planned development	74	68	66	65	65
A33	Recreational use – Planned development	83	72	67	66	66
A34	Recreational use – Planned development	77	68	66	65	65
A35	Recreational use – Planned development	77	67	65	65	65
A36	Recreational use – Planned development	68	65	65	65	65
A37	House No 28 Ta Kwu Ling Village	72	69	66	65	65

Result Summary (Cumulative Annual FSP)

Unmitigated

ASR ID	Location	Annual FSP Concentration at various height (ug/m3)				
		1.5 mAG	5 mAG	10 mAG	15 mAG	20 mAG
A1	Lo Wu Control Point	32	32	32	32	32
A2	Village House along Lo Wu Road	32	32	32	32	32
A3	Lo Wu Public School	32	32	32	32	32
A4	Lo Wu Document Storage Building	32	31	31	31	31
A5	Village House along Lo Wu Station Road	32	32	32	32	32
A6	Food and Environmental Hygiene Department	32	32	32	32	32
A7	Village House along Man Kam To Road	32	31	31	31	31
A8	Border District Police Headquarter	31	31	31	31	31
A9	Village House along Man Kam To Road	32	32	31	31	31
A10	Village House along Man Kam To Road	32	32	32	32	32
A11	Village House along Man Kam To Road	32	32	32	32	32
A13	Temple	33	32	32	32	31
A14	Village House along Man Kam To Road	32	32	31	31	31
A15	Village House along Man Kam To Road	31	31	31	31	31
A16	Village House along Man Kam To Road	31	31	31	31	31
A17	Village House along Man Kam To Road	31	31	31	31	31
A18	Ta Kwu Ling Division Border Enforcement Unit Block	31	31	31	31	31
A19	Village House near Man Kam To Operation Base	32	32	32	32	32
A20	Man Kam To Boundary Control Point	31	31	31	31	31
A21	Village House to the south of Man Kam To Boundary Control Po	31	31	31	31	31
A22	Hung Kiu San Tsuen	31	31	31	31	31
A23	Village House at San Uk Ling	31	31	31	31	31
A24	Village House along Li Ma Hang Road	31	31	31	31	31
A25	Village House along Muk Wu	31	31	31	31	31
A26	Village House along Li Ma Hang Road	31	31	31	31	31
A28	Village House along Li Ma Hang Road	33	32	31	31	31
A29	Village House at Muk Wu Nga Yiu	32	32	31	31	31
A30	Village House at Muk Wu Chuen Yiu (Planned)	39	34	32	31	31
A31	Village House at Muk Wu Chuen Yiu	35	34	32	31	31
A32	Recreational use – Planned development	36	33	31	31	31
A33	Recreational use – Planned development	37	33	31	31	31
A34	Recreational use – Planned development	34	32	31	31	31
A35	Recreational use – Planned development	34	32	31	30	30
A36	Recreational use – Planned development	37	33	31	31	31
A37	House No 28 Ta Kwu Ling Village	32	31	31	30	30