Annex A11-1 - Detailed Model Results & No. of Instances having Exceedance (After Rephasing)

PART A --- PREDICTED 5-SECOND ODOUR RESULTS

Source Height at 10m above ground

ASR	Name	Approx. Maximum Height of Building	Worst Case 3		
			Maximum 5-second Odour Levels 1.5m above ground		
		(m)			
		(,	w/o rephasing	w/ rephasing	
Λ1 1	Dropood C2DM Handling Facility	20			
A1-1 A1-2 (1)	Proposed C&DM Handling Facility Planned Industrial Uses in TKO 137	30 30	3.2 1.9	3.2 1.2	
A1-2 (1)	(south of Extension) - 1	30	1.9	1.2	
Λ1 2 (2)	Planned Industrial Uses in TKO 137	30	1.3	1.3	
A1-2 (2)	(south of Extension) - 2 (outside 200m	30	1.3	1.3	
	HKPSG buffer distance)				
A1-3 (1)	Planned Industrial Uses in TKO 137	30	23.2	19.3	
A1-3 (1)	(south of TVB City) - 1	30	25.2	19.5	
A1-3 (2)	Planned Industrial Uses in TKO 137	30	11.4	5.6	
A1-3 (2)	(south of TVB City) - 2 (outside 200m	30	11.4	3.0	
	HKPSG buffer distance)				
A2	TVB City	30	12.5	8.9	
A3	HAESL	30	3.3	3.3	
A4	HAECO Component Overhaul Building	30	2.4	2.4	
A5	Exhibition Services & Logistics Centre	30	1.7	1.3	
A6	Gammon Skanska	30	1.2	1.2	
A7	Yan Hing Machinery Industrial Building	30	2.7	2.7	
A8	Apple Daily	30	1.9	1.9	
A9	Mei Ah Industrial Building	30	2.4	2.4	
A10	Asia Netcom	30	1.8	1.8	
A11	Wellcome Storage	30	1.9	1.9	
A12	Avery Dennison Machinery	30	1.5	1.5	
A13	Hitachi	30	1.4	1.4	
A14	Next Media Co. Ltd	30	1.2	1.2	
A15	Varitronix	30	0.9	0.9	
A16	Four Seas Food Processing Co. Ltd	30	0.9	0.9	
A17	Committed HSBC Office	30	0.8	0.8	
A18	Eastern Pacific Electronics	30	0.7	0.7	
A19	Committed Tung Wah Group of Hospital	30	0.6	0.6	
	Aided Primary & Secondary School				
A20	LOHAS Park	200	0.5	0.5	
A20 A21	Chiaphua-Shinko Centre	30	0.5	0.3	
A21	Shaw Film Studios	30	0.4	0.4	
A23	Oscar by the Sea	170	0.2	0.4	
A24	Tseung Kwan O Sport Ground	1.5	0.2	0.2	
A25	Tseung Kwan O Town Park	1.5	0.2	0.1	
A26	Leung Sing Tak Primary School	20	0.2	0.2	
A27	Nan Fung Plaza	130	0.2	0.2	
A28	St Andrew's Church	20	0.2	0.2	
A29	Fung Ching Memorial Primary School	20	0.2	0.2	
A30	On Ning Garden	120	0.2	0.2	
A31	Sheung Ning Playground	1.5	0.1	0.1	
A32	Tseung Kwan O Swimming Pool	1.5	0.1	0.1	
A33	La Cite Noble	140	0.2	0.2	
A34	Yuk Ming Court	110	0.2	0.2	
A35	Ming Tak Estate	110	0.2	0.2	
A36	Tin Ha Wan Village	10	0.2	0.2	
A37	Tseung Kwan O Hospital	25	0.2	0.2	
A38	Ocean Shore Phase I	160	0.2	0.2	
A39	Choi Ming Estate, Choi Yiu Court	155	0.2	0.1	
A40	Park Central Block 1	185	0.2	0.2	
A41	Bauhinia Garden Block 5	165	0.2	0.2	
A42	Heng Fa Chuen, Block 50	70	0.2	0.2	
A43	Island Resort, Block 7	160	0.2	0.2	

Source Height at 30m above ground

ASR	Name	Approx. Maximum	Worst Case 3	
	raine	Height of Building	Maximum 5-second Odour Levels 1.5m above ground	
		(m)		
			w/o rephasing	w/ rephasing
A1-1	Proposed C&DM Handling Facility	30	2.2	2.2
	Planned Industrial Uses in TKO 137	30	1.9	1.9
	(south of Extension) - 1			
A1-2 (2)	Planned Industrial Uses in TKO 137	30	1.6	1.6
	(south of Extension) - 2 (outside 200m			
	HKPSG buffer distance)			
A1-3 (1)	Planned Industrial Uses in TKO 137	30	14.4	14.4
A1-3 (2)	(south of TVB City) - 1 Planned Industrial Uses in TKO 137	30	7.3	7.3
A1-3 (2)	(south of TVB City) - 2 (outside 200m	30	7.3	7.3
	HKPSG buffer distance)			
A2	TVB City	30	13.1	9.5
A3	HAESL	30	4.2	4.2
A4	HAECO Component Overhaul Building	30	2.8	2.8
A5	Exhibition Services & Logistics Centre	30	1.8	1.8
A6	Gammon Skanska	30	1.6	1.1
A7	Yan Hing Machinery Industrial Building	30	3.3	3.3
A8	Apple Daily	30	2.4	2.4
A9	Mei Ah Industrial Building	30	2.1	2.1
A10	Asia Netcom	30	1.7	1.7
A11	Wellcome Storage	30	2.2	2.2
A12	Avery Dennison Machinery	30	1.7	1.7
A13	Hitachi	30	1.7	1.7
A14	Next Media Co. Ltd	30	1.3	1.3
A15	Varitronix	30	1.2	1.2
A16 A17	Four Seas Food Processing Co. Ltd Committed HSBC Office	30 30	0.9 1.0	0.9 1.0
A17	Eastern Pacific Electronics	30	0.7	0.7
A19	Committed Tung Wah Group of Hospital	30	0.7	0.7
	Aided Primary & Secondary School	30	0.7	0.7
A20	LOHAS Park	200	0.4	0.4
A21	Chiaphua-Shinko Centre	30	0.4	0.4
A22	Shaw Film Studios	30	0.4	0.4
A23	Oscar by the Sea	170	0.2	0.2
A24	Tseung Kwan O Sport Ground	1.5	0.2	0.2
A25 A26	Tseung Kwan O Town Park Leung Sing Tak Primary School	1.5 20	0.2 0.2	0.2 0.2
A27	Nan Fung Plaza	130	0.2	0.2
A28	St Andrew's Church	20	0.1	0.1
A29	Fung Ching Memorial Primary School	20	0.1	0.1
A30	On Ning Garden	120	0.1	0.1
A31	Sheung Ning Playground	1.5	0.1	0.1
A32	Tseung Kwan O Swimming Pool	1.5	0.1	0.1
A33	La Cite Noble	140	0.2	0.2
A34	Yuk Ming Court	110	0.2	0.2
A35	Ming Tak Estate	110	0.2	0.2
A36	Tin Ha Wan Village	10	0.2	0.2
A37	Tseung Kwan O Hospital	25	0.2	0.2
A38	Ocean Shore Phase I	160	0.2	0.2
A39	Choi Ming Estate, Choi Yiu Court	155	0.2	0.1
A40 A41	Park Central Block 1	185	0.2	0.2
Δ/11	Bauhinia Garden Block 5	165	0.2	0.2
A42	Heng Fa Chuen, Block 50	70	0.2	0.2

Source Height at 50m above ground

ASR	Name	Approx. Maximum	Worst Case 3		
AOIX	Traine	Height of Building	Maximum 5-second Odour Levels 1.5m above ground		
		(m)			
		(,	w/o rephasing	w/ rephasing	
A1-1	Proposed C&DM Handling Facility	30	1.7	1.7	
A1-2 (1)	Planned Industrial Uses in TKO 137	30	1.3	1.3	
A1-2 (1)	(south of Extension) - 1	30	1.5	1.5	
A1-2 (2)	Planned Industrial Uses in TKO 137	30	1.1	1.1	
/ (L (L)	(south of Extension) - 2 (outside 200m	00			
	HKPSG buffer distance)				
A1-3 (1)	Planned Industrial Uses in TKO 137	30	11.2	11.2	
, ,	(south of TVB City) - 1				
A1-3 (2)	Planned Industrial Uses in TKO 137	30	6.9	6.9	
	(south of TVB City) - 2 (outside 200m				
	HKPSG buffer distance)				
A2	TVB City	30	14.0	8.6	
A3	HAESL	30	5.2	4.0	
A4	HAECO Component Overhaul Building	30	3.5	3.1	
A5	Exhibition Services & Logistics Centre	30	3.0	1.9	
A6	Gammon Skanska	30	1.7	1.0	
A7	Yan Hing Machinery Industrial Building	30	3.4	3.4	
A8	Apple Daily	30	2.7	2.7	
A9	Mei Ah Industrial Building	30	2.4	2.4	
A10	Asia Netcom	30	2.4	1.8	
A11	Wellcome Storage	30	1.9	1.9	
A12	Avery Dennison Machinery	30	2.1	2.1	
A13	Hitachi	30	1.8	1.8	
A14	Next Media Co. Ltd	30	1.5	1.5	
A15	Varitronix	30	1.3	1.3	
A16	Four Seas Food Processing Co. Ltd	30	1.1	1.1	
A17	Committed HSBC Office	30	1.0	1.0	
A18	Eastern Pacific Electronics	30	0.9	0.9	
A19	Committed Tung Wah Group of Hospital	30	0.7	0.7	
	Aided Primary & Secondary School				
A20	LOHAS Park	200	0.4	0.4	
A21	Chiaphua-Shinko Centre	30	0.6	0.6	
A22	Shaw Film Studios	30	0.4	0.4	
A23	Oscar by the Sea	170	0.2	0.2	
A24	Tseung Kwan O Sport Ground	1.5	0.2	0.2	
A25	Tseung Kwan O Town Park	1.5	0.2	0.2	
A26	Leung Sing Tak Primary School	20 130	0.2	0.2	
A27	Nan Fung Plaza		0.1	0.1	
A28 A29	St Andrew's Church Fung Ching Memorial Primary School	20 20	0.1 0.1	0.1 0.1	
A29 A30	On Ning Garden	120	0.1	0.1	
A30 A31	Sheung Ning Playground	1.5	0.1	0.1	
A31	Tseung Kwan O Swimming Pool	1.5	0.1	0.1	
A33	La Cite Noble	140	0.2	0.1	
A34	Yuk Ming Court	110	0.2	0.2	
A35	Ming Tak Estate	110	0.2	0.2	
A36	Tin Ha Wan Village	10	0.2	0.2	
A37	Tseung Kwan O Hospital	25	0.2	0.2	
A38	Ocean Shore Phase I	160	0.2	0.2	
A39	Choi Ming Estate, Choi Yiu Court	155	0.2	0.1	
A40	Park Central Block 1	185	0.2	0.2	
A41	Bauhinia Garden Block 5	165	0.2	0.2	
A42	Heng Fa Chuen, Block 50	70	0.2	0.2	
A43	Island Resort, Block 7	160	0.2	0.1	

Source Height at 70m above ground

ASR	Name	Approx. Maximum	Worst Case 3	
		Height of Building	Maximum 5-second Odour Levels 1.5m above ground	
		(m)		
		(,	w/o rephasing	w/ rephasing
A1-1	Proposed C&DM Handling Facility	30	1.4	1.5
A1-2 (1)	Planned Industrial Uses in TKO 137	30	1.5	1.2
A1-2 (1)	(south of Extension) - 1	30	1.5	1.2
A1-2 (2)	Planned Industrial Uses in TKO 137	30	1.2	0.8
/ (1 Z (Z)	(south of Extension) - 2 (outside 200m	30	1.2	0.0
	HKPSG buffer distance)			
A1-3 (1)	Planned Industrial Uses in TKO 137	30	6.4	6.4
711 0 (1)	(south of TVB City) - 1	00	0.1	0.1
A1-3 (2)	Planned Industrial Uses in TKO 137	30	3.3	3.3
/ (1 O (L)	(south of TVB City) - 2 (outside 200m	00	0.0	0.0
	HKPSG buffer distance)			
A2	TVB City	30	6.5	6.5
A3	HAESL	30	3.1	1.8
A4	HAECO Component Overhaul Building	30	4.4	3.1
A5	Exhibition Services & Logistics Centre	30	1.9	1.3
A6	Gammon Skanska	30	1.1	0.7
A7	Yan Hing Machinery Industrial Building	30	3.5	3.5
A8	Apple Daily	30	2.6	2.6
A9	Mei Ah Industrial Building	30	3.0	2.6
A10	Asia Netcom	30	2.5	2.5
A11	Wellcome Storage	30	2.1	2.1
A12	Avery Dennison Machinery	30	2.3	2.2
A13	Hitachi	30	1.5	1.6
A14	Next Media Co. Ltd	30	1.6	1.6
A15	Varitronix	30	1.3	1.3
A16	Four Seas Food Processing Co. Ltd	30	1.0	1.0
A17	Committed HSBC Office	30	1.2	1.2
A18	Eastern Pacific Electronics	30	0.8	0.8
A19	Committed Tung Wah Group of Hospital	30	0.7	0.6
	Aided Primary & Secondary School		5	0.0
A20	LOHAS Park	200	0.4	0.4
A21	Chiaphua-Shinko Centre	30	0.5	0.5
A22	Shaw Film Studios	30	0.4	0.4
A23	Oscar by the Sea	170	0.2	0.2
A24	Tseung Kwan O Sport Ground	1.5	0.1	0.2
A25	Tseung Kwan O Town Park	1.5	0.1	0.1
A26	Leung Sing Tak Primary School	20	0.2	0.2
A27	Nan Fung Plaza	130	0.2	0.2
A28	St Andrew's Church	20	0.1	0.1
A29	Fung Ching Memorial Primary School	20	0.1	0.1
A30	On Ning Garden	120	0.1	0.1
A31	Sheung Ning Playground	1.5	0.1	0.1
A32	Tseung Kwan O Swimming Pool	1.5	0.1	0.1
A33	La Cite Noble	140	0.2	0.2
A34	Yuk Ming Court	110	0.2	0.2
A35	Ming Tak Estate	110	0.2	0.2
A36	Tin Ha Wan Village	10	0.2	0.2
A37	Tseung Kwan O Hospital	25	0.2	0.2
A38	Ocean Shore Phase I	160	0.2	0.2
A39	Choi Ming Estate, Choi Yiu Court	155	0.2	0.1
A40	Park Central Block 1	185	0.2	0.2
A41	Bauhinia Garden Block 5	165	0.2	0.2
A42	Heng Fa Chuen, Block 50	70	0.2	0.2

Source Height at 100m above ground

ASR	Name	Approx. Maximum	Worst Case 3		
ASIN	Hailie	Height of Building	Maximum 5-second Odour Levels 1.5m above ground		
		(m)			
		(111)			
A 4 4	Description of CODM Handling Facility	00	w/o rephasing	w/ rephasing	
A1-1 A1-2 (1)	Proposed C&DM Handling Facility Planned Industrial Uses in TKO 137	30 30	1.2 1.2	1.2 1.0	
A1-2(1)	(south of Extension) - 1	30	1.2	1.0	
A1-2 (2)	Planned Industrial Uses in TKO 137	30	0.7	0.7	
A1-2 (2)	(south of Extension) - 2 (outside 200m	30	0.7	0.7	
	HKPSG buffer distance)				
A1-3 (1)	Planned Industrial Uses in TKO 137	30	2.9	2.6	
A1-3 (1)	(south of TVB City) - 1	30	2.0	2.0	
A1-3 (2)	Planned Industrial Uses in TKO 137	30	2.6	2.6	
/(1 0 (Z)	(south of TVB City) - 2 (outside 200m	30	2.0	2.0	
	HKPSG buffer distance)				
A2	TVB City	30	5.4	5.4	
A3	HAESL	30	3.8	1.8	
A4	HAECO Component Overhaul Building	30	2.3	1.4	
A5	Exhibition Services & Logistics Centre	30	1.1	1.1	
A6	Gammon Skanska	30	0.8	0.7	
A7	Yan Hing Machinery Industrial Building	30	3.7	2.6	
A8	Apple Daily	30	2.8	2.3	
A9	Mei Ah Industrial Building	30	3.8	2.6	
A10	Asia Netcom	30	2.7	1.8	
A11	Wellcome Storage	30	2.3	2.3	
A12	Avery Dennison Machinery	30	1.8	1.8	
A13	Hitachi	30	1.6	1.6	
A14	Next Media Co. Ltd	30	1.4	1.4	
A15	Varitronix	30	1.2	1.2	
A16	Four Seas Food Processing Co. Ltd	30	0.9	0.9	
A17	Committed HSBC Office	30	1.1	1.1	
A18	Eastern Pacific Electronics	30	0.7	0.7	
A19	Committed Tung Wah Group of Hospital	30	0.6	0.6	
	Aided Primary & Secondary School				
A20	LOHAS Park	200	0.4	0.4	
A21	Chiaphua-Shinko Centre	30	0.5	0.5	
A22	Shaw Film Studios	30	0.4	0.4	
A23	Oscar by the Sea	170	0.2	0.2	
A24	Tseung Kwan O Sport Ground	1.5	0.1	0.1	
A25	Tseung Kwan O Town Park	1.5	0.1	0.2	
A26	Leung Sing Tak Primary School	20	0.1	0.1	
A27	Nan Fung Plaza	130	0.1	0.1	
A28	St Andrew's Church	20	0.1	0.1	
A29	Fung Ching Memorial Primary School	20	0.1	0.1	
A30	On Ning Garden	120	0.1	0.1	
A31	Sheung Ning Playground	1.5	0.1	0.1	
A32	Tseung Kwan O Swimming Pool	1.5	0.1	0.1	
A33	La Cite Noble	140	0.2	0.2	
A34	Yuk Ming Court	110	0.2	0.2	
A35	Ming Tak Estate	110	0.2	0.2	
A36	Tin Ha Wan Village	10	0.2	0.2	
A37	Tseung Kwan O Hospital	25	0.2	0.2	
A38	Ocean Shore Phase I	160	0.2	0.2	
A39	Choi Ming Estate, Choi Yiu Court	155	0.2	0.2	
A40	Park Central Block 1	185	0.2	0.1	
A41	Bauhinia Garden Block 5	165	0.2	0.2	
A42	Heng Fa Chuen, Block 50	70	0.2	0.2	
A43	Island Resort, Block 7	160	0.1	0.1	