

Annex A9-1 - ISCST3 Model Results for Gaseous Emissions during Aftercare Phase

Nitrogen Dioxide (NO2)

General Background NO2 concentration 66 ug/m3

Maximum Hourly

ASR	Name	Approx. Maximum Height of Building (m)	GD	10m	20m	30m	Highest
A1-1	Proposed C&DM Handling Facility	30	75	75	75	75	75
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	68	68	68	129	129
A1-2 (2)	Planned Industrial Uses in TKO 137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	69	69	70	73	73
A1-3 (1)	Planned Industrial Uses in TKO 137 - (South of TVB City) 1	30	67	68	68	68	68
A1-3 (2)	Planned Industrial Uses in TKO 137 - (South of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	68	68	68	68	68
A2	TVB City	30	67	67	68	68	68
A3	HAESL	30	67	67	67	68	68
A4	Building	30	67	68	70	75	75
A7	Building	30	72	72	73	74	74
A8	Apple Daily	30	83	83	84	84	84
Hourly NO2 Criterion			300	300	300	300	300

Daily

General Background NO2 concentration 66 ug/m3

ASR	Name	Approx. Maximum Height of Building (m)	GD	10m	20m	30m	Highest
A1-1	Proposed C&DM Handling Facility	30	66.5	66.5	66.5	66.5	66.5
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	66.2	66.2	66.3	85.7	85.7
A1-2 (2)	Planned Industrial Uses in TKO 137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	66.4	66.4	66.5	67.2	67.2
A1-3 (1)	Planned Industrial Uses in TKO 137 - (South of TVB City) 1	30	66.3	66.3	66.3	66.4	66.4
A1-3 (2)	Planned Industrial Uses in TKO 137 - (South of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	66.4	66.4	66.5	66.7	66.7
A2	TVB City	30	66.3	66.3	66.3	66.4	66.4
A3	HAESL	30	66.3	66.3	66.5	66.7	66.7
A4	HAECO Component Overhaul Building	30	66.2	66.2	66.4	67.0	67.0
A7	Yan Hing Machinery Industrial Building	30	66.3	66.4	66.5	66.7	66.7
A8	Apple Daily	30	67.1	67.1	67.2	67.3	67.3
Daily NO2 Criterion			150	150	150	150	150

Annual Average

General Background NO2 concentration 66 ug/m3

ASR	Name	Approx. Maximum Height of Building (m)	GD	10m	20m	30m	Highest
A1-1	Proposed C&DM Handling Facility	30	66.03	66.03	66.04	66.06	66.1
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	66.00	66.00	66.02	66.96	67.0
A1-2 (2)	Planned Industrial Uses in TKO 137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	66.02	66.02	66.04	66.08	66.1
A1-3 (1)	Planned Industrial Uses in TKO 137 - (South of TVB City) 1	30	66.04	66.04	66.04	66.05	66.1
A1-3 (2)	Planned Industrial Uses in TKO 137 - (South of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	66.03	66.04	66.04	66.06	66.1
A2	TVB City	30	66.04	66.04	66.04	66.05	66.0
A3	HAESL	30	66.08	66.09	66.13	66.22	66.2
A4	HAECO Component Overhaul Building	30	66.05	66.05	66.07	66.13	66.1
A7	Yan Hing Machinery Industrial Building	30	66.04	66.05	66.06	66.09	66.1
A8	Apple Daily	30	66.06	66.06	66.08	66.11	66.1
Annual NO2 Criterion			80	80	80	80	80

Carbon Monoxide (CO)

General Background CO concentration 1294 ug/m3

Maximum Hourly

ASR	Name	Approx. Maximum Height of Building (m)	GD	10m	20m	30m	Highest
A1-1	Proposed C&DM Handling Facility	30	1319	1319	1323	1350	1350
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	1308	1308	1330	2273	2273
A1-2 (2)	Planned Industrial Uses in TKO 137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	1324	1324	1329	1395	1395
A1-3 (1)	Planned Industrial Uses in TKO 137 - (South of TVB City) 1	30	1317	1318	1318	1328	1328
A1-3 (2)	Planned Industrial Uses in TKO 137 - (South of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	1317	1317	1319	1326	1326
A2	TVB City	30	1316	1316	1318	1325	1325
A3	HAESL	30	1314	1314	1315	1325	1325
A4	HAECO Component Overhaul Building	30	1311	1311	1314	1326	1326
A7	Yan Hing Machinery Industrial Building	30	1312	1313	1315	1326	1326
A8	Apple Daily	30	1318	1318	1319	1326	1326
Hourly CO Criterion			30000	30000	30000	30000	30000

8-hour Averaging

General Background CO concentration 1294 ug/m3

ASR	Name	Approx. Maximum Height of Building (m)	GD	10m	20m	30m	Highest
A1-1	Proposed C&DM Handling Facility	30	1308	1309	1311	1315	1315
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	1296	1296	1306	1764	1764
A1-2 (2)	Planned Industrial Uses in TKO 137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	1308	1310	1315	1342	1342
A1-3 (1)	Planned Industrial Uses in TKO 137 - (South of TVB City) 1	30	1306	1306	1306	1306	1306
A1-3 (2)	Planned Industrial Uses in TKO 137 - (South of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	1304	1305	1308	1311	1311
A2	TVB City	30	1306	1306	1306	1306	1306
A3	HAESL	30	1302	1302	1302	1302	1302
A4	HAECO Component Overhaul Building	30	1302	1302	1302	1302	1302
A7	Yan Hing Machinery Industrial Building	30	1302	1302	1302	1308	1308
A8	Apple Daily	30	1301	1301	1302	1309	1309
8-hour CO Criterion			10000	10000	10000	10000	10000

Sulphur Dioxide (SO₂)

Maximum Hourly

Background SO₂ concentration 18 ug/m³

ASR	Name	Approx. Maximum Height of Building (m)	GD	10m	20m	30m	Highest
A1-1	Proposed C&DM Handling Facility	30	20.6	20.6	20.9	23.7	24
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	18.2	18.2	21.6	118.1	118
A1-2 (2)	Planned Industrial Uses in TKO 137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	20.9	20.9	21.6	28.1	28
A1-3 (1)	Planned Industrial Uses in TKO 137 - (South of TVB City) 1	30	20.4	20.4	20.5	21.5	21
A1-3 (2)	Planned Industrial Uses in TKO 137 - (South of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	20.3	20.4	20.5	21.3	21
A2	TVB City	30	20.3	20.3	20.4	21.2	21
A3	HAESL	30	20.0	20.1	20.2	21.1	21
A4	HAECO Component Overhaul Building	30	19.7	19.7	20.0	21.2	21
A7	Yan Hing Machinery Industrial Building	30	19.8	19.9	20.1	21.2	21
A8	Apple Daily	30	19.8	19.8	20.0	21.2	21
Hourly SO ₂ Criterion			800	800	800	800	800

Daily

Background SO₂ concentration 18 ug/m³

ASR	Name	Approx. Maximum Height of Building (m)	GD	10m	20m	30m	Highest
A1-1	Proposed C&DM Handling Facility	30	18.54	18.56	18.62	18.79	18.8
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	18.01	18.01	18.39	49.50	49.5
A1-2 (2)	Planned Industrial Uses in TKO 137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	18.46	18.53	18.71	19.62	19.6
A1-3 (1)	Planned Industrial Uses in TKO 137 - (South of TVB City) 1	30	18.49	18.50	18.53	18.58	18.6
A1-3 (2)	Planned Industrial Uses in TKO 137 - (South of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	18.62	18.67	18.81	19.10	19.1
A2	TVB City	30	18.44	18.45	18.47	18.51	18.5
A3	HAESL	30	18.33	18.34	18.36	18.39	18.4
A4	HAECO Component Overhaul Building	30	18.29	18.30	18.35	18.44	18.4
A7	Yan Hing Machinery Industrial Building	30	18.48	18.51	18.66	19.00	19.0
A8	Apple Daily	30	18.39	18.42	18.52	18.79	18.8
Daily SO ₂ Criterion			350	350	350	350	350

Annual Average

Background SO₂ concentration 18 ug/m³

ASR	Name	Approx. Maximum Height of Building (m)	GD	10m	20m	30m	Highest
A1-1	Proposed C&DM Handling Facility	30	18.039	18.041	18.050	18.077	18.08
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	18.001	18.003	18.023	19.476	19.48
A1-2 (2)	Planned Industrial Uses in TKO 137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	18.022	18.028	18.050	18.104	18.10
A1-3 (1)	Planned Industrial Uses in TKO 137 - (South of TVB City) 1	30	18.051	18.052	18.056	18.068	18.07
A1-3 (2)	Planned Industrial Uses in TKO 137 - (South of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	18.044	18.045	18.053	18.075	18.07
A2	TVB City	30	18.048	18.049	18.053	18.063	18.06
A3	HAESL	30	18.038	18.040	18.048	18.063	18.06
A4	HAECO Component Overhaul Building	30	18.037	18.038	18.044	18.058	18.06
A7	Yan Hing Machinery Industrial Building	30	18.047	18.050	18.062	18.091	18.09
A8	Apple Daily	30	18.044	18.047	18.059	18.085	18.09
Annual SO ₂ Criterion			80	80	80	80	80

Benzene

Background concentration

2.1 ug/m3

Maximum Hourly

ASR	Name	Approx. Maximum Height of Building (m)	GD	10m	20m	30m	Highest
A1-1	Proposed C&DM Handling Facility	30	2.10124	2.10124	2.10145	2.10271	2.103
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	2.10004	2.1001	2.10179	2.14678	2.147
A1-2 (2)	Planned Industrial Uses in TKO 137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	2.10151	2.10156	2.10183	2.10509	2.105
A1-3 (1)	Planned Industrial Uses in TKO 137 - (South of TVB City) 1	30	2.10112	2.10113	2.10117	2.10163	2.102
A1-3 (2)	Planned Industrial Uses in TKO 137 - (South of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	2.1011	2.10111	2.10118	2.10153	2.102
A2	TVB City	30	2.10106	2.10107	2.10115	2.10153	2.102
A3	HAESL	30	2.10096	2.10097	2.10103	2.10158	2.102
A4	HAECO Component Overhaul Building	30	2.10081	2.10082	2.10094	2.10163	2.102
A7	Yan Hing Machinery Industrial Building	30	2.10086	2.10089	2.101	2.10163	2.102
A8	Apple Daily	30	2.10084	2.10087	2.10095	2.10164	2.102
Acute Reference Concentration			1,300	1,300	1,300	1,300	1,300

Annual Average

ASR	Name	Approx. Maximum Height of Building (m)	GD	10m	20m	30m	Highest
A1-1	Proposed C&DM Handling Facility	30	2.100	2.100	2.100	2.100	2.100
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	2.100	2.100	2.100	2.101	2.101
A1-2 (2)	Planned Industrial Uses in TKO 137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	2.100	2.100	2.100	2.100	2.100
A1-3 (1)	Planned Industrial Uses in TKO 137 - (South of TVB City) 1	30	2.100	2.100	2.100	2.100	2.100
A1-3 (2)	Planned Industrial Uses in TKO 137 - (South of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	2.100	2.100	2.100	2.100	2.100
A2	TVB City	30	2.100	2.100	2.100	2.100	2.100
A3	HAESL	30	2.100	2.100	2.100	2.100	2.100
A4	HAECO Component Overhaul Building	30	2.100	2.100	2.100	2.100	2.100
A7	Yan Hing Machinery Industrial Building	30	2.100	2.100	2.100	2.100	2.100
A8	Apple Daily	30	2.100	2.100	2.100	2.100	2.100
Chronic Reference Concentration			30	30	30	30	30

Vinyl Chloride

Background concentration

5.1 ug/m3

Maximum Hourly

ASR	Name	Approx. Maximum Height of Building (m)	GD	10m	20m	30m	Highest
A1-1	Proposed C&DM Handling Facility	30	5.100	5.100	5.100	5.100	5.100
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	5.100	5.100	5.100	5.104	5.104
A1-2 (2)	Planned Industrial Uses in TKO 137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	5.101	5.101	5.101	5.102	5.102
A1-3 (1)	Planned Industrial Uses in TKO 137 - (South of TVB City) 1	30	5.100	5.100	5.100	5.100	5.100
A1-3 (2)	Planned Industrial Uses in TKO 137 - (South of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	5.100	5.100	5.100	5.100	5.100
A2	TVB City	30	5.100	5.100	5.100	5.100	5.100
A3	HAESL	30	5.100	5.100	5.100	5.100	5.100
A4	HAECO Component Overhaul Building	30	5.100	5.100	5.100	5.100	5.100
A7	Yan Hing Machinery Industrial Building	30	5.100	5.100	5.100	5.100	5.100
A8	Apple Daily	30	5.100	5.100	5.100	5.100	5.100
Acute Reference Concentration			1.8.E+05	1.8.E+05	1.8.E+05	1.8.E+05	1.8.E+05

Annual Average

ASR	Name	Approx. Maximum Height of Building (m)	GD	10m	20m	30m	Highest
A1-1	Proposed C&DM Handling Facility	30	5.10	5.10	5.10	5.10	5.100
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	5.10	5.10	5.10	5.10	5.100
A1-2 (2)	Planned Industrial Uses in TKO 137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	5.10	5.10	5.10	5.10	5.100
A1-3 (1)	Planned Industrial Uses in TKO 137 - (South of TVB City) 1	30	5.10	5.10	5.10	5.10	5.100
A1-3 (2)	Planned Industrial Uses in TKO 137 - (South of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	5.10	5.10	5.10	5.10	5.100
A2	TVB City	30	5.10	5.10	5.10	5.10	5.100
A3	HAESL	30	5.10	5.10	5.10	5.10	5.100
A4	HAECO Component Overhaul Building	30	5.10	5.10	5.10	5.10	5.100
A7	Yan Hing Machinery Industrial Building	30	5.10	5.10	5.10	5.10	5.100
A8	Apple Daily	30	5.10	5.10	5.10	5.10	5.100
Chronic Reference Concentration			100	100	100	100	100