

Appendix 3.13 Detailed Prediction Result (Operation Phase)

Year 2020 - 2026

5-second Average Odour Concentration (OU/m³)

Receptor ID	Height (mAG)	DO	ASP	YLIIE_H2S	YLIIE_NH3	SCR	Ambient Background	Total
A01	1.5	0.86	0.00	0.00	0.00	0.73	0.00	1.59
A01	5	0.94	0.00	0.00	0.00	0.72	0.00	1.66
A02	1.5	0.55	0.28	0.00	0.00	0.93	0.00	1.76
A02	5	0.56	0.30	0.00	0.00	0.94	0.00	1.80
A02	10	0.57	0.36	0.00	0.00	0.96	0.00	1.89
A02	15	0.33	0.91	0.00	0.00	0.86	0.00	2.10
A03	1.5	0.84	0.02	0.00	0.00	0.62	0.00	1.48
A03	5	0.83	0.03	0.00	0.00	0.62	0.00	1.48
A03	10	0.81	0.05	0.00	0.00	0.63	0.00	1.49
A04	1.5	0.75	0.00	0.00	0.00	0.50	0.00	1.25
A04	5	0.75	0.00	0.00	0.00	0.50	0.00	1.25
A04	10	0.80	0.00	0.00	0.00	0.49	0.00	1.30
A05	1.5	0.50	0.53	0.00	0.00	0.26	0.00	1.29
A05	5	0.53	0.53	0.00	0.00	0.26	0.00	1.32
A06	1.5	0.52	0.07	0.00	0.00	0.58	0.00	1.17
A06	5	0.55	0.09	0.00	0.00	0.58	0.00	1.23
A06	10	0.84	0.15	0.00	0.00	0.47	0.00	1.45
A07	1.5	0.45	0.13	0.00	0.00	0.52	0.00	1.10
A07	5	0.49	0.17	0.00	0.00	0.47	0.00	1.13
A07	10	0.83	0.13	0.00	0.00	0.44	0.00	1.41
A08	1.5	0.47	0.26	0.00	0.00	0.59	0.00	1.32
A08	5	0.47	0.27	0.00	0.00	0.58	0.00	1.32
A08	10	0.51	0.29	0.00	0.00	0.56	0.00	1.36
A09	1.5	0.63	0.00	0.00	0.00	0.97	0.00	1.61
A09	5	0.64	0.01	0.00	0.00	0.97	0.00	1.61
A09	10	0.29	0.55	0.00	0.00	0.95	0.00	1.79
A09	15	0.31	1.19	0.00	0.00	1.51	0.00	3.02
A10	1.5	0.60	0.05	0.01	0.00	0.46	0.00	1.12
A10	5	0.82	0.08	0.01	0.00	0.47	0.00	1.39
A11	1.5	0.54	0.31	0.00	0.00	1.00	0.00	1.85
A11	5	0.54	0.36	0.00	0.00	1.02	0.00	1.92

Appendix 3.13 Detailed Prediction Result (Operation Phase)

Ultimate

5-second Average Odour Concentration (OU/m³)

Receptor ID	Height (mAG)	DO	ASP	YLIIE_H2S	YLIIE_NH3	SCR	Ambient Background	Total
A01	1.5	1.02	0.00	0.00	0.00	0.55	0.00	1.56
A01	5	1.08	0.00	0.00	0.00	0.57	0.00	1.65
A02	1.5	0.59	0.28	0.00	0.00	0.93	0.00	1.80
A02	5	0.60	0.30	0.00	0.00	0.94	0.00	1.84
A02	10	0.66	0.36	0.00	0.00	0.96	0.00	1.97
A02	15	0.38	0.91	0.00	0.00	0.86	0.00	2.15
A03	1.5	0.95	0.02	0.00	0.00	0.46	0.00	1.43
A03	5	0.94	0.03	0.00	0.00	0.48	0.00	1.45
A03	10	0.83	0.19	0.00	0.00	0.55	0.00	1.56
A04	1.5	0.89	0.00	0.00	0.00	0.36	0.00	1.26
A04	5	0.89	0.00	0.00	0.00	0.38	0.00	1.27
A04	10	0.93	0.00	0.00	0.00	0.42	0.00	1.35
A05	1.5	0.60	0.53	0.00	0.00	0.26	0.00	1.39
A05	5	0.63	0.53	0.00	0.00	0.26	0.00	1.42
A06	1.5	0.57	0.07	0.00	0.00	0.58	0.00	1.23
A06	5	0.61	0.09	0.00	0.00	0.58	0.00	1.29
A06	10	0.91	0.15	0.00	0.00	0.47	0.00	1.52
A07	1.5	0.50	0.13	0.00	0.00	0.52	0.00	1.15
A07	5	0.51	0.15	0.00	0.00	0.52	0.00	1.18
A07	10	0.90	0.13	0.00	0.00	0.44	0.00	1.47
A08	1.5	0.51	0.26	0.00	0.00	0.59	0.00	1.36
A08	5	0.53	0.27	0.00	0.00	0.58	0.00	1.38
A08	10	0.62	0.29	0.00	0.00	0.56	0.00	1.47
A09	1.5	0.68	0.00	0.00	0.00	0.97	0.00	1.65
A09	5	0.69	0.01	0.00	0.00	0.97	0.00	1.66
A09	10	0.31	0.55	0.00	0.00	0.93	0.00	1.80
A09	15	0.33	1.19	0.00	0.00	1.49	0.00	3.02
A10	1.5	0.68	0.05	0.01	0.00	0.47	0.00	1.20
A10	5	0.93	0.08	0.01	0.00	0.47	0.00	1.50
A11	1.5	0.58	0.31	0.00	0.00	1.00	0.00	1.89
A11	5	0.58	0.36	0.00	0.00	1.02	0.00	1.95
P1	15	0.47	0.59	0.00	0.00	0.92	0.00	1.98
P1	20	0.43	0.90	0.00	0.00	1.01	0.00	2.35
P2	15	0.60	0.41	0.00	0.00	1.00	0.00	2.02
P2	20	0.56	0.75	0.00	0.00	1.18	0.00	2.50
P3	15	0.34	0.86	0.00	0.00	0.76	0.00	1.96
P3	20	0.42	0.83	0.00	0.00	1.05	0.00	2.29
P4	15	0.42	0.60	0.00	0.00	0.91	0.00	1.93
P4	20	0.39	0.94	0.00	0.00	0.96	0.00	2.30

Appendix 3.13 Detailed Prediction Result (Operation Phase)

Year 2026 - 2030

19th Highest Hourly NO2 Concentration (µg/m³)

Receptor ID	Height (mAG)	Vehicle	YLEPP	Industrial	Ambient Background	Total
A01	1.5	1.19	0.00	0.26	106.46	107.91
A01	5	0.93	0.00	0.26	106.46	107.65
A02	1.5	0.23	0.00	0.00	113.49	113.72
A02	5	2.15	0.00	11.72	99.54	113.42
A02	10	0.92	0.00	12.61	99.54	113.07
A02	15	0.11	0.01	0.37	119.28	119.77
A03	1.5	0.01	0.05	0.06	109.03	109.15
A03	5	1.19	0.01	21.03	86.43	108.65
A03	10	0.19	0.00	0.00	107.55	107.74
A04	1.5	1.02	0.00	7.04	98.67	106.73
A04	5	0.49	0.00	0.34	105.54	106.37
A04	10	0.30	0.00	7.34	98.67	106.32
A05	1.5	0.67	0.00	0.02	105.40	106.09
A05	5	0.55	0.00	0.02	105.40	105.96
A06	1.5	1.40	0.00	72.95	35.59	109.94
A06	5	1.19	0.00	49.31	57.02	107.51
A06	10	0.24	0.02	0.23	109.03	109.53
A07	1.5	0.00	0.00	0.00	106.54	106.54
A07	5	2.36	0.00	0.19	103.82	106.38
A07	10	0.00	0.00	0.00	106.46	106.46
A08	1.5	0.00	0.00	0.00	106.46	106.46
A08	5	0.00	0.00	0.00	106.46	106.46
A08	10	1.18	0.00	0.86	103.82	105.86
A09	1.5	1.46	0.00	23.88	85.83	111.16
A09	5	1.58	0.03	0.85	109.03	111.49
A09	10	0.05	0.02	0.00	111.57	111.64
A09	15	0.16	0.00	7.55	106.46	114.18
A10	1.5	0.00	0.00	0.00	96.18	96.18
A10	5	0.00	0.00	0.00	96.18	96.18
A11	1.5	0.73	0.00	5.31	105.40	111.44
A11	5	1.53	0.00	15.81	95.08	112.42

Appendix 3.13 Detailed Prediction Result (Operation Phase)

Year 2026 - 2030

Annual NO2 Concentration (µg/m³)

Receptor ID	Height (mAG)	Vehicle	YLEPP	Industrial	Ambient Background	Total
A01	1.5	0.44	0.48	2.34	18.47	21.74
A01	5	0.39	0.47	2.24	18.47	21.57
A02	1.5	0.80	2.46	5.52	18.47	27.25
A02	5	0.67	2.60	5.61	18.47	27.35
A02	10	0.45	3.09	5.64	18.47	27.65
A02	15	0.29	3.85	6.53	18.47	29.15
A03	1.5	1.04	0.43	2.50	18.47	22.45
A03	5	0.75	0.42	2.56	18.47	22.20
A03	10	0.36	0.44	2.82	18.47	22.10
A04	1.5	0.51	0.23	2.14	18.47	21.35
A04	5	0.45	0.22	1.83	18.47	20.97
A04	10	0.31	0.22	2.27	18.47	21.28
A05	1.5	0.14	0.25	0.76	18.47	19.63
A05	5	0.13	0.25	0.74	18.47	19.59
A06	1.5	0.62	0.82	9.82	18.47	29.73
A06	5	0.55	0.84	8.88	18.47	28.75
A06	10	0.42	0.95	7.24	18.47	27.09
A07	1.5	0.74	0.67	5.82	18.47	25.70
A07	5	0.54	0.68	5.81	18.47	25.50
A07	10	0.38	0.76	5.84	18.47	25.46
A08	1.5	0.25	0.92	3.82	18.47	23.47
A08	5	0.24	0.94	3.79	18.47	23.44
A08	10	0.21	1.01	3.75	18.47	23.44
A09	1.5	0.65	2.47	3.62	18.47	25.21
A09	5	0.57	2.58	3.59	18.47	25.21
A09	10	0.38	3.11	3.62	18.47	25.58
A09	15	0.23	4.03	3.72	18.47	26.46
A10	1.5	0.06	0.59	0.84	16.79	18.28
A10	5	0.06	0.59	0.83	16.79	18.27
A11	1.5	0.47	2.36	4.40	18.47	25.72
A11	5	0.43	2.49	4.39	18.47	25.79

Appendix 3.13 Detailed Prediction Result During Operation Phase

Year 2026 - 2030

4th Highest 10min SO2 Concentration (µg/m³)

Receptor ID	Height (mAG)	YLEPP	Industrial	Ambient Background	Total
A01	1.5	0.02	70.72	109.50	180.24
A01	5	0.02	63.69	109.50	173.21
A02	1.5	0.00	102.42	68.75	171.17
A02	5	0.00	102.21	68.75	170.96
A02	10	0.00	101.51	68.75	170.26
A02	15	0.01	100.30	68.75	169.06
A03	1.5	0.02	33.27	109.50	142.80
A03	5	0.02	34.06	109.50	143.58
A03	10	0.02	36.37	109.50	145.89
A04	1.5	0.68	113.00	38.10	151.78
A04	5	0.02	88.24	56.01	144.27
A04	10	0.64	114.06	38.10	152.80
A05	1.5	0.48	42.22	85.70	128.40
A05	5	0.39	41.36	85.70	127.46
A06	1.5	4.31	62.43	66.99	133.73
A06	5	4.22	62.72	66.99	133.93
A06	10	4.11	63.73	66.99	134.83
A07	1.5	0.25	1.27	110.67	112.20
A07	5	0.20	1.27	110.67	112.14
A07	10	0.16	69.96	47.66	117.79
A08	1.5	6.70	0.00	110.67	117.37
A08	5	7.13	0.00	110.67	117.81
A08	10	8.76	0.00	110.67	119.44
A09	1.5	0.00	122.91	39.18	162.09
A09	5	0.00	122.86	39.18	162.04
A09	10	0.00	122.64	39.18	161.82
A09	15	143.91	0.00	24.49	168.40
A10	1.5	3.85	76.62	32.11	112.58
A10	5	3.89	76.49	32.11	112.49
A11	1.5	0.00	105.95	39.18	145.13
A11	5	0.00	105.64	39.18	144.81

Appendix 3.13 Detailed Prediction Result During Operation Phase

Year 2026 - 2030

4th Highest Daily SO2 Concentration (µg/m³)

Receptor ID	Height (mAG)	YLEPP	Industrial	Ambient Background	Total
A01	1.5	0.30	4.04	28.34	32.68
A01	5	0.31	3.91	28.34	32.56
A02	1.5	0.73	2.54	28.34	31.61
A02	5	0.74	2.58	28.34	31.66
A02	10	7.21	8.09	17.84	33.14
A02	15	9.40	8.70	17.84	35.94
A03	1.5	0.55	4.25	28.34	33.14
A03	5	0.56	4.26	28.34	33.16
A03	10	0.23	13.41	20.88	34.53
A04	1.5	0.11	8.26	23.13	31.50
A04	5	0.11	7.13	23.13	30.36
A04	10	0.90	10.40	20.42	31.73
A05	1.5	2.10	0.38	23.86	26.34
A05	5	2.08	0.35	23.86	26.29
A06	1.5	1.09	7.22	23.43	31.75
A06	5	1.10	7.19	23.43	31.72
A06	10	1.12	7.18	23.43	31.74
A07	1.5	0.78	6.22	23.43	30.43
A07	5	0.77	6.26	23.43	30.47
A07	10	0.07	7.71	23.18	30.95
A08	1.5	2.86	0.87	26.12	29.85
A08	5	0.57	0.94	28.34	29.85
A08	10	0.60	0.92	28.34	29.87
A09	1.5	0.56	7.72	28.34	36.62
A09	5	0.57	7.76	28.34	36.66
A09	10	0.61	7.98	28.34	36.93
A09	15	0.71	8.42	28.34	37.47
A10	1.5	1.43	4.47	23.44	29.34
A10	5	1.50	4.46	23.44	29.40
A11	1.5	0.67	3.60	28.34	32.61
A11	5	0.69	3.60	28.34	32.63

Appendix 3.13 Detailed Prediction Result (Operation Phase)

Year 2026 - 2030

Highest Hourly NH3 Concentration ($\mu\text{g}/\text{m}^3$)

Receptor ID	Height (mAG)	YLEPP	Industrial	Total
A01	1.5	8.44	0.00	8.44
A01	5	8.37	0.00	8.37
A02	1.5	13.68	0.00	13.68
A02	5	13.96	0.00	13.96
A02	10	15.99	0.00	15.99
A02	15	19.93	0.00	19.93
A03	1.5	7.44	0.00	7.44
A03	5	7.70	0.00	7.70
A03	10	8.48	0.00	8.48
A04	1.5	5.68	0.00	5.68
A04	5	5.64	0.00	5.64
A04	10	5.54	0.00	5.54
A05	1.5	8.95	0.00	8.95
A05	5	8.96	0.00	8.96
A06	1.5	7.68	0.00	7.68
A06	5	8.25	0.00	8.25
A06	10	10.30	0.00	10.30
A07	1.5	7.31	0.00	7.31
A07	5	7.64	0.00	7.64
A07	10	9.10	0.00	9.10
A08	1.5	10.02	0.00	10.02
A08	5	10.09	0.00	10.09
A08	10	10.29	0.00	10.29
A09	1.5	11.25	0.00	11.25
A09	5	11.16	0.00	11.16
A09	10	16.89	0.00	16.89
A09	15	30.48	0.00	30.48
A10	1.5	7.62	0.00	7.62
A10	5	7.96	0.00	7.96
A11	1.5	14.74	0.00	14.74
A11	5	15.44	0.00	15.44

Appendix 3.13 Detailed Prediction Result (Operation Phase)

Year 2026 - 2030

Annual NH3 Concentration ($\mu\text{g}/\text{m}^3$)

Receptor ID	Height (mAG)	YLEPP	Industrial	Total
A01	1.5	0.17	0.04	0.21
A01	5	0.16	0.04	0.20
A02	1.5	0.82	0.10	0.91
A02	5	0.84	0.09	0.93
A02	10	0.92	0.09	1.01
A02	15	1.05	0.09	1.14
A03	1.5	0.15	0.06	0.21
A03	5	0.14	0.06	0.20
A03	10	0.15	0.06	0.20
A04	1.5	0.08	0.06	0.14
A04	5	0.07	0.06	0.14
A04	10	0.07	0.06	0.13
A05	1.5	0.07	0.02	0.09
A05	5	0.07	0.02	0.09
A06	1.5	0.28	0.18	0.46
A06	5	0.28	0.21	0.49
A06	10	0.30	0.30	0.60
A07	1.5	0.23	0.06	0.28
A07	5	0.23	0.07	0.30
A07	10	0.25	0.14	0.38
A08	1.5	0.29	0.16	0.46
A08	5	0.30	0.16	0.45
A08	10	0.30	0.15	0.46
A09	1.5	0.96	0.06	1.02
A09	5	0.99	0.06	1.05
A09	10	1.13	0.06	1.19
A09	15	1.34	0.05	1.39
A10	1.5	0.19	0.02	0.21
A10	5	0.19	0.02	0.21
A11	1.5	0.82	0.07	0.89
A11	5	0.84	0.07	0.91

Appendix 3.13 Detailed Prediction Result (Operation Phase)

Ultimate

19th Highest Hourly NO2 Concentration (µg/m³)

Receptor ID	Height (mAG)	Vehicle	YLEPP	Industrial	Ambient Background	Total
A01	1.5	0.25	0.32	0.31	105.54	106.42
A01	5	0.17	0.42	0.29	105.54	106.42
A02	1.5	0.06	0.61	0.00	111.57	112.24
A02	5	0.06	0.61	0.00	111.57	112.24
A02	10	0.36	0.00	12.61	99.54	112.50
A02	15	0.05	0.01	0.37	119.28	119.70
A03	1.5	0.43	0.00	20.65	86.43	107.51
A03	5	0.40	0.01	21.03	86.43	107.87
A03	10	0.07	0.00	0.00	107.55	107.61
A04	1.5	0.47	0.00	7.04	98.67	106.18
A04	5	0.17	0.00	0.34	105.54	106.05
A04	10	0.14	0.00	7.34	98.67	106.16
A05	1.5	0.23	0.00	0.02	105.40	105.65
A05	5	0.19	0.00	0.02	105.40	105.60
A06	1.5	1.38	0.00	45.37	62.65	109.40
A06	5	0.42	0.00	49.31	57.02	106.75
A06	10	0.09	0.02	0.23	109.03	109.38
A07	1.5	1.71	0.00	0.19	103.82	105.73
A07	5	0.00	0.00	0.00	105.54	105.54
A07	10	0.00	0.00	0.00	106.46	106.46
A08	1.5	1.01	0.00	0.85	103.82	105.69
A08	5	0.86	0.00	0.85	103.82	105.54
A08	10	0.00	0.00	0.00	105.54	105.54
A09	1.5	0.47	0.00	23.88	85.83	110.18
A09	5	0.50	0.03	0.85	109.03	110.40
A09	10	0.04	0.02	0.00	111.57	111.63
A09	15	0.08	0.00	7.55	106.46	114.10
A10	1.5	0.00	0.00	0.00	96.18	96.18
A10	5	0.00	0.00	0.00	96.18	96.18
A11	1.5	0.08	35.36	0.00	75.31	110.74
A11	5	0.59	0.00	15.81	95.08	111.48
P1	15	0.01	1.11	0.01	108.00	109.13
P1	20	0.00	0.07	0.00	111.70	111.77
P2	15	0.11	41.06	2.28	63.95	107.40
P2	20	0.13	27.46	8.99	77.12	113.71
P3	15	0.01	0.00	0.00	108.95	108.97
P3	20	0.00	0.07	0.00	111.70	111.77
P4	15	0.09	44.92	2.18	63.14	110.33
P4	20	0.01	79.07	0.09	35.13	114.31

Appendix 3.13 Detailed Prediction Result (Operation Phase)

Ultimate

Annual NO2 Concentration (µg/m³)

Receptor ID	Height (mAG)	Vehicle	YLEPP	Industrial	Ambient Background	Total
A01	1.5	0.16	0.44	2.34	18.47	21.42
A01	5	0.14	0.43	2.24	18.47	21.29
A02	1.5	0.31	2.46	5.52	18.47	26.76
A02	5	0.25	2.60	5.61	18.47	26.93
A02	10	0.16	3.09	5.64	18.47	27.36
A02	15	0.10	3.85	6.53	18.47	28.96
A03	1.5	0.38	0.41	2.50	18.47	21.76
A03	5	0.27	0.41	2.56	18.47	21.71
A03	10	0.13	0.43	2.82	18.47	21.86
A04	1.5	0.19	0.22	2.14	18.47	21.02
A04	5	0.16	0.21	1.83	18.47	20.68
A04	10	0.12	0.22	2.27	18.47	21.08
A05	1.5	0.06	0.25	0.76	18.47	19.55
A05	5	0.05	0.25	0.74	18.47	19.52
A06	1.5	0.25	0.82	9.82	18.47	29.36
A06	5	0.22	0.84	8.88	18.47	28.41
A06	10	0.16	0.95	7.24	18.47	26.82
A07	1.5	0.33	0.67	5.82	18.47	25.30
A07	5	0.21	0.68	5.81	18.47	25.18
A07	10	0.14	0.76	5.84	18.47	25.22
A08	1.5	0.10	0.92	3.82	18.47	23.32
A08	5	0.09	0.94	3.79	18.47	23.29
A08	10	0.08	1.01	3.75	18.47	23.31
A09	1.5	0.23	2.44	3.62	18.47	24.76
A09	5	0.20	2.56	3.59	18.47	24.81
A09	10	0.13	3.08	3.62	18.47	25.31
A09	15	0.08	4.01	3.72	18.47	26.29
A10	1.5	0.03	0.59	0.84	16.79	18.24
A10	5	0.02	0.59	0.83	16.79	18.23
A11	1.5	0.18	2.36	4.40	18.47	25.43
A11	5	0.16	2.49	4.39	18.47	25.52
P1	15	0.03	1.28	1.40	16.79	19.51
P1	20	0.03	1.43	1.42	16.79	19.67
P2	15	0.03	1.49	1.51	16.79	19.83
P2	20	0.03	1.70	1.53	16.79	20.05
P3	15	0.03	1.12	1.40	16.79	19.34
P3	20	0.03	1.25	1.41	16.79	19.48
P4	15	0.04	1.18	1.59	18.47	21.28
P4	20	0.03	1.32	1.59	18.47	21.42

Appendix 3.13 Detailed Prediction Result During Operation Phase

Ultimate

10th Highest Daily RSP Concentration (µg/m³)

Receptor ID	Height (mAG)	Vehicle	YLEPP	Industrial	Ambient Background	Total
A01	1.5	0.01	0.01	29.85	64.21	94.08
A01	5	0.00	0.01	11.54	80.91	92.46
A02	1.5	0.01	0.97	1.23	80.91	83.13
A02	5	0.01	2.28	1.85	79.03	83.17
A02	10	0.00	1.08	1.45	80.91	83.44
A02	15	0.00	2.99	1.25	79.03	83.28
A03	1.5	0.02	0.32	3.93	80.45	84.72
A03	5	0.02	0.31	3.87	80.45	84.65
A03	10	0.01	0.01	0.94	82.81	83.77
A04	1.5	0.01	0.00	0.70	82.81	83.53
A04	5	0.01	0.00	0.65	82.81	83.47
A04	10	0.01	0.06	1.10	80.91	82.08
A05	1.5	0.01	0.49	3.24	77.49	81.22
A05	5	0.00	0.08	0.57	80.45	81.10
A06	1.5	0.01	0.44	2.91	80.91	84.27
A06	5	0.01	0.45	2.69	80.91	84.06
A06	10	0.01	0.59	1.41	80.57	82.58
A07	1.5	0.01	0.41	3.12	80.91	84.45
A07	5	0.01	0.41	2.93	80.91	84.26
A07	10	0.01	0.44	1.76	80.91	83.12
A08	1.5	0.00	0.66	0.72	80.91	82.29
A08	5	0.00	0.66	0.64	80.91	82.21
A08	10	0.00	0.69	0.28	80.91	81.88
A09	1.5	0.00	1.69	0.87	80.57	83.14
A09	5	0.00	1.79	0.79	80.57	83.15
A09	10	0.00	2.09	0.35	80.57	83.01
A09	15	0.00	2.46	0.13	80.57	83.16
A10	1.5	0.00	0.01	0.45	81.18	81.64
A10	5	0.00	0.01	0.44	81.18	81.63
A11	1.5	0.00	1.17	0.37	80.91	82.45
A11	5	0.00	1.21	0.35	80.91	82.47
P1	15	0.00	0.01	0.44	81.18	81.63
P1	20	0.00	0.02	0.42	81.18	81.62
P2	15	0.00	0.02	0.51	81.18	81.71
P2	20	0.00	0.02	0.49	81.18	81.69
P3	15	0.00	0.01	0.38	81.18	81.57
P3	20	0.00	0.02	0.36	81.18	81.56
P4	15	0.00	0.03	0.13	80.91	81.07
P4	20	0.00	0.03	0.12	80.91	81.06

Appendix 3.13 Detailed Prediction Result During Operation Phase

Ultimate

Annual RSP Concentration (µg/m³)

Receptor ID	Height (mAG)	Vehicle	YLEPP	Industrial	Ambient Background	Total
A01	1.5	0.01	0.09	10.98	34.25	45.33
A01	5	0.01	0.09	10.42	34.25	44.77
A02	1.5	0.01	0.51	1.55	34.25	36.33
A02	5	0.01	0.52	1.53	34.25	36.31
A02	10	0.01	0.56	1.41	34.25	36.23
A02	15	0.00	0.62	1.24	34.25	36.13
A03	1.5	0.02	0.08	2.84	34.25	37.19
A03	5	0.01	0.08	2.75	34.25	37.10
A03	10	0.01	0.09	2.13	34.25	36.47
A04	1.5	0.01	0.04	1.65	34.25	35.96
A04	5	0.01	0.04	1.56	34.25	35.86
A04	10	0.00	0.04	0.85	34.25	35.15
A05	1.5	0.00	0.05	0.71	34.25	35.01
A05	5	0.00	0.04	0.66	34.25	34.96
A06	1.5	0.01	0.17	2.83	34.25	37.27
A06	5	0.01	0.18	2.60	34.25	37.04
A06	10	0.01	0.19	1.51	34.25	35.96
A07	1.5	0.01	0.14	2.22	34.25	36.63
A07	5	0.01	0.15	2.05	34.25	36.46
A07	10	0.01	0.15	1.19	34.25	35.60
A08	1.5	0.00	0.18	1.55	34.25	35.99
A08	5	0.00	0.18	1.44	34.25	35.88
A08	10	0.00	0.19	0.97	34.25	35.41
A09	1.5	0.01	0.61	1.85	34.25	36.72
A09	5	0.01	0.63	1.79	34.25	36.68
A09	10	0.01	0.72	1.60	34.25	36.58
A09	15	0.00	0.84	1.39	34.25	36.48
A10	1.5	0.00	0.12	0.40	34.47	34.99
A10	5	0.00	0.12	0.38	34.47	34.98
A11	1.5	0.01	0.52	1.35	34.25	36.13
A11	5	0.01	0.54	1.31	34.25	36.11
P1	15	0.00	0.24	0.51	34.47	35.22
P1	20	0.00	0.26	0.51	34.47	35.24
P2	15	0.00	0.29	0.55	34.47	35.31
P2	20	0.00	0.31	0.55	34.47	35.34
P3	15	0.00	0.21	0.51	34.47	35.20
P3	20	0.00	0.22	0.51	34.47	35.21
P4	15	0.00	0.24	0.66	34.25	35.15
P4	20	0.00	0.26	0.67	34.25	35.18

Appendix 3.13 Detailed Prediction Result During Operation Phase

Ultimate

10th Highest Daily FSP Concentration (µg/m³)

Receptor ID	Height (mAG)	Vehicle	YLEPP	Industrial	Ambient Background	Total
A01	1.5	0.01	0.26	4.58	60.34	65.18
A01	5	0.00	0.00	5.02	60.68	65.71
A02	1.5	0.01	1.26	0.11	60.68	62.06
A02	5	0.00	1.29	0.11	60.68	62.08
A02	10	0.00	1.38	0.05	60.68	62.11
A02	15	0.00	2.67	0.41	59.27	62.35
A03	1.5	0.02	0.00	1.71	60.68	62.42
A03	5	0.01	0.00	1.59	60.68	62.29
A03	10	0.01	0.01	0.44	61.56	62.02
A04	1.5	0.01	0.05	0.42	60.68	61.17
A04	5	0.01	0.05	0.41	60.68	61.16
A04	10	0.01	0.05	0.30	60.68	61.04
A05	1.5	0.00	0.00	0.05	60.68	60.74
A05	5	0.00	0.00	0.04	60.68	60.73
A06	1.5	0.01	0.14	0.80	60.68	61.64
A06	5	0.01	0.46	0.71	60.43	61.61
A06	10	0.01	0.48	0.61	60.43	61.53
A07	1.5	0.01	0.34	0.82	60.68	61.85
A07	5	0.01	0.35	1.04	60.43	61.83
A07	10	0.01	0.37	0.87	60.43	61.68
A08	1.5	0.00	0.56	0.24	60.68	61.48
A08	5	0.00	0.56	0.22	60.68	61.47
A08	10	0.00	0.59	0.15	60.68	61.43
A09	1.5	0.00	1.24	0.17	60.43	61.85
A09	5	0.00	1.35	0.15	60.43	61.93
A09	10	0.00	1.67	0.07	60.43	62.17
A09	15	0.00	2.08	0.03	60.43	62.54
A10	1.5	0.00	0.01	0.15	60.88	61.05
A10	5	0.00	0.01	0.15	60.88	61.04
A11	1.5	0.00	0.65	0.29	60.68	61.63
A11	5	0.00	0.68	0.28	60.68	61.65
P1	15	0.00	0.01	0.17	60.88	61.07
P1	20	0.00	0.02	0.16	60.88	61.06
P2	15	0.00	0.01	0.20	60.88	61.10
P2	20	0.00	0.02	0.19	60.88	61.09
P3	15	0.00	0.01	0.15	60.88	61.04
P3	20	0.00	0.02	0.14	60.88	61.04
P4	15	0.00	0.02	0.04	60.68	60.75
P4	20	0.00	0.03	0.04	60.68	60.75

Appendix 3.13 Detailed Prediction Result During Operation Phase

Ultimate

Annual FSP Concentration (µg/m³)

Receptor ID	Height (mAG)	Vehicle	YLEPP	Industrial	Ambient Background	Total
A01	1.5	0.01	0.07	4.71	24.32	29.10
A01	5	0.01	0.07	4.45	24.32	28.85
A02	1.5	0.01	0.43	0.48	24.32	25.25
A02	5	0.01	0.44	0.48	24.32	25.25
A02	10	0.01	0.48	0.45	24.32	25.26
A02	15	0.00	0.55	0.44	24.32	25.31
A03	1.5	0.01	0.06	0.84	24.32	25.24
A03	5	0.01	0.06	0.79	24.32	25.18
A03	10	0.00	0.07	0.65	24.32	25.05
A04	1.5	0.01	0.03	0.35	24.32	24.71
A04	5	0.01	0.03	0.32	24.32	24.68
A04	10	0.00	0.03	0.23	24.32	24.59
A05	1.5	0.00	0.04	0.23	24.32	24.59
A05	5	0.00	0.04	0.21	24.32	24.57
A06	1.5	0.01	0.14	0.64	24.32	25.11
A06	5	0.01	0.15	0.62	24.32	25.09
A06	10	0.01	0.16	0.52	24.32	25.00
A07	1.5	0.01	0.12	0.45	24.32	24.90
A07	5	0.01	0.12	0.44	24.32	24.88
A07	10	0.01	0.13	0.36	24.32	24.81
A08	1.5	0.00	0.16	0.41	24.32	24.89
A08	5	0.00	0.16	0.39	24.32	24.87
A08	10	0.00	0.16	0.32	24.32	24.80
A09	1.5	0.01	0.46	0.50	24.32	25.29
A09	5	0.01	0.49	0.48	24.32	25.30
A09	10	0.01	0.58	0.44	24.32	25.34
A09	15	0.00	0.71	0.39	24.32	25.43
A10	1.5	0.00	0.10	0.11	24.48	24.69
A10	5	0.00	0.10	0.10	24.48	24.68
A11	1.5	0.01	0.43	0.39	24.32	25.14
A11	5	0.01	0.44	0.38	24.32	25.15
P1	15	0.00	0.20	0.15	24.48	24.83
P1	20	0.00	0.21	0.15	24.48	24.83
P2	15	0.00	0.24	0.16	24.48	24.88
P2	20	0.00	0.26	0.16	24.48	24.89
P3	15	0.00	0.17	0.15	24.48	24.80
P3	20	0.00	0.19	0.15	24.48	24.81
P4	15	0.00	0.20	0.20	24.32	24.72
P4	20	0.00	0.21	0.19	24.32	24.72

Appendix 3.13 Detailed Prediction Result During Operation Phase

Ultimate

4th Highest 10min SO2 Concentration (ug/m³)

Receptor ID	Height (mAG)	YLEPP	Industrial	Ambient Background	Total
A01	1.5	0.02	70.72	109.50	180.24
A01	5	0.02	63.69	109.50	173.21
A02	1.5	0.00	102.42	68.75	171.17
A02	5	0.00	102.21	68.75	170.96
A02	10	0.00	101.51	68.75	170.26
A02	15	0.01	100.30	68.75	169.06
A03	1.5	0.02	33.27	109.50	142.80
A03	5	0.02	34.06	109.50	143.58
A03	10	0.02	36.37	109.50	145.89
A04	1.5	0.68	113.00	38.10	151.78
A04	5	0.01	88.24	56.01	144.25
A04	10	0.64	114.06	38.10	152.80
A05	1.5	0.48	42.22	85.70	128.40
A05	5	0.39	41.36	85.70	127.46
A06	1.5	4.31	62.43	66.99	133.73
A06	5	4.22	62.72	66.99	133.93
A06	10	4.11	63.73	66.99	134.83
A07	1.5	0.25	1.27	110.67	112.20
A07	5	0.20	1.27	110.67	112.14
A07	10	0.16	69.96	47.66	117.79
A08	1.5	6.70	0.00	110.67	117.37
A08	5	7.13	0.00	110.67	117.81
A08	10	8.76	0.00	110.67	119.44
A09	1.5	0.00	122.91	39.18	162.09
A09	5	0.00	122.86	39.18	162.04
A09	10	0.00	122.64	39.18	161.82
A09	15	143.49	0.00	24.49	167.99
A10	1.5	3.85	76.62	32.11	112.58
A10	5	3.89	76.49	32.11	112.49
A11	1.5	0.00	105.95	39.18	145.13
A11	5	0.00	105.64	39.18	144.81
P1	15	0.03	108.88	32.11	141.02
P1	20	106.76	0.05	45.63	152.44
P2	15	95.23	0.04	45.63	140.89
P2	20	118.43	0.04	45.63	164.09
P3	15	0.00	110.09	32.11	142.20
P3	20	94.83	0.02	56.83	151.68
P4	15	0.01	113.73	50.35	164.08
P4	20	0.03	114.89	50.35	165.27

Appendix 3.13 Detailed Prediction Result During Operation Phase

Ultimate

4th Highest Daily SO2 Concentration (ug/m³)

Receptor ID	Height (mAG)	YLEPP	Industrial	Ambient Background	Total
A01	1.5	0.24	4.04	28.34	32.62
A01	5	0.25	3.91	28.34	32.50
A02	1.5	0.73	2.54	28.34	31.61
A02	5	0.74	2.58	28.34	31.66
A02	10	7.21	8.09	17.84	33.14
A02	15	9.40	8.70	17.84	35.94
A03	1.5	0.37	4.25	28.34	32.96
A03	5	0.41	4.26	28.34	33.01
A03	10	0.23	13.41	20.88	34.53
A04	1.5	0.11	8.26	23.13	31.50
A04	5	0.11	7.13	23.13	30.36
A04	10	0.85	10.40	20.42	31.68
A05	1.5	2.10	0.38	23.86	26.34
A05	5	2.08	0.35	23.86	26.29
A06	1.5	1.09	7.22	23.43	31.75
A06	5	1.10	7.19	23.43	31.72
A06	10	1.12	7.18	23.43	31.74
A07	1.5	0.78	6.22	23.43	30.43
A07	5	0.77	6.26	23.43	30.47
A07	10	0.07	7.71	23.18	30.95
A08	1.5	2.86	0.87	26.12	29.85
A08	5	0.57	0.94	28.34	29.85
A08	10	0.60	0.92	28.34	29.87
A09	1.5	0.56	7.72	28.34	36.62
A09	5	0.57	7.76	28.34	36.66
A09	10	0.60	7.98	28.34	36.93
A09	15	0.71	8.42	28.34	37.46
A10	1.5	1.43	4.47	23.44	29.34
A10	5	1.50	4.46	23.44	29.40
A11	1.5	0.67	3.60	28.34	32.61
A11	5	0.69	3.60	28.34	32.63
P1	15	2.75	7.38	23.44	33.57
P1	20	3.55	7.76	23.44	34.75
P2	15	2.96	7.66	23.44	34.05
P2	20	3.97	8.02	23.44	35.42
P3	15	3.52	7.35	23.44	34.30
P3	20	4.50	7.80	23.44	35.73
P4	15	2.64	7.67	23.13	33.44
P4	20	3.66	7.94	23.13	34.73

Appendix 3.13 Detailed Prediction Result (Operation Phase)

Ultimate

Highest Hourly NH3 Concentration (µg/m³)

Receptor ID	Height (mAG)	YLEPP	Industrial	Total
A01	1.5	6.58	0.00	6.58
A01	5	7.08	0.00	7.08
A02	1.5	13.68	0.00	13.68
A02	5	13.96	0.00	13.96
A02	10	15.99	0.00	15.99
A02	15	19.93	0.00	19.93
A03	1.5	6.31	0.00	6.31
A03	5	6.80	0.00	6.80
A03	10	8.25	0.00	8.25
A04	1.5	4.41	0.00	4.41
A04	5	4.63	0.00	4.63
A04	10	5.30	0.00	5.30
A05	1.5	8.95	0.00	8.95
A05	5	8.96	0.00	8.96
A06	1.5	7.68	0.00	7.68
A06	5	8.25	0.00	8.25
A06	10	10.30	0.00	10.30
A07	1.5	7.31	0.00	7.31
A07	5	7.64	0.00	7.64
A07	10	9.10	0.00	9.10
A08	1.5	10.02	0.00	10.02
A08	5	10.09	0.00	10.09
A08	10	10.29	0.00	10.29
A09	1.5	11.25	0.00	11.25
A09	5	11.16	0.00	11.16
A09	10	16.69	0.00	16.69
A09	15	30.26	0.00	30.26
A10	1.5	7.62	0.00	7.62
A10	5	7.96	0.00	7.96
A11	1.5	14.74	0.00	14.74
A11	5	15.44	0.00	15.44
P1	15	17.77	0.00	17.77
P1	20	21.57	0.00	21.57
P2	15	18.24	0.00	18.24
P2	20	22.95	0.00	22.95
P3	15	18.27	0.00	18.27
P3	20	21.91	0.00	21.91
P4	15	17.01	0.00	17.01
P4	20	21.48	0.00	21.48

Appendix 3.13 Detailed Prediction Result (Operation Phase)

Ultimate

Annual NH3 Concentration (µg/m³)

Receptor ID	Height (mAG)	YLEPP	Industrial	Total
A01	1.5	0.15	0.04	0.19
A01	5	0.15	0.04	0.19
A02	1.5	0.82	0.10	0.91
A02	5	0.84	0.09	0.93
A02	10	0.92	0.09	1.01
A02	15	1.05	0.09	1.14
A03	1.5	0.13	0.06	0.19
A03	5	0.13	0.06	0.19
A03	10	0.14	0.06	0.20
A04	1.5	0.07	0.06	0.13
A04	5	0.07	0.06	0.13
A04	10	0.07	0.06	0.13
A05	1.5	0.07	0.02	0.09
A05	5	0.07	0.02	0.09
A06	1.5	0.28	0.18	0.46
A06	5	0.28	0.21	0.49
A06	10	0.30	0.30	0.60
A07	1.5	0.23	0.06	0.28
A07	5	0.23	0.07	0.30
A07	10	0.25	0.14	0.38
A08	1.5	0.29	0.16	0.46
A08	5	0.30	0.16	0.45
A08	10	0.30	0.15	0.46
A09	1.5	0.94	0.06	1.00
A09	5	0.97	0.06	1.03
A09	10	1.11	0.06	1.17
A09	15	1.33	0.05	1.38
A10	1.5	0.19	0.02	0.21
A10	5	0.19	0.02	0.21
A11	1.5	0.82	0.07	0.89
A11	5	0.84	0.07	0.91
P1	15	0.39	0.02	0.41
P1	20	0.42	0.02	0.45
P2	15	0.46	0.03	0.49
P2	20	0.51	0.02	0.53
P3	15	0.34	0.02	0.37
P3	20	0.37	0.02	0.39
P4	15	0.38	0.02	0.40
P4	20	0.42	0.02	0.44