

### Appendix 3.12 Predicted Ammoniacal Nitrogen and UIA Concentrations

Table A3.12a: Predicted Elutriate Ammoniacal Nitrogen Concentrations at Water Sensitive Receivers (all sampling locations included)

Sensitive Receivers	Assessment Point	Scenario 1		Scenario 2		Scenario 3		Scenario 4		Scenario 5	
		Elutriate NH <sub>3</sub> -N concentration (mg/L)		Elutriate NH <sub>3</sub> -N concentration (mg/L)		Elutriate NH <sub>3</sub> -N concentration (mg/L)		Elutriate NH <sub>3</sub> -N concentration (mg/L)		Elutriate NH <sub>3</sub> -N concentration (mg/L)	
		Dry Season	Wet Season	Dry Season	Wet Season	Dry Season	Wet Season	Dry Season	Wet Season	Dry Season	Wet Season
<b>Gazetted Beaches</b>											
Tung Wan, Ma Wan	B1	0.17	0.16	0.16	0.14	0.11	0.11	0.17	0.14	0.21	0.18
Approach	B2	0.91	0.17	0.90	0.16	0.11	0.08	1.00	0.17	1.05	0.19
Ting Kau	B3	0.71	0.16	0.70	0.14	0.10	0.08	0.77	0.15	0.82	0.17
Lido	B4	0.47	0.13	0.46	0.11	0.11	0.08	0.48	0.12	0.54	0.13
Casam	B5	0.24	0.14	0.23	0.12	0.11	0.10	0.24	0.13	0.29	0.15
Hoi Mei Wan	B6	0.22	0.14	0.21	0.12	0.11	0.10	0.22	0.13	0.27	0.15
Gemini	B7	0.21	0.14	0.20	0.12	0.11	0.10	0.20	0.13	0.26	0.15
Angler's	B8	0.20	0.14	0.19	0.12	0.11	0.10	0.20	0.12	0.25	0.15
Lo So Shing	B9	0.01	0.06	0.01	0.05	0.01	0.05	0.01	0.05	0.01	0.06
Hung Shing Yeh	B10	0.01	0.06	0.01	0.05	0.01	0.05	0.01	0.05	0.01	0.06
<b>Corals</b>											
Pak Kok	CR1	0.11	0.12	0.10	0.10	0.09	0.10	0.10	0.10	0.11	0.11
Shek Kok Tsui	CR2	0.09	0.12	0.07	0.09	0.07	0.09	0.08	0.10	0.09	0.11
Luk Chau	CR3	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06
Wong Chuk Kok	CR4	0.04	0.04	0.04	0.03	0.04	0.03	0.03	0.03	0.04	0.04
Ap Lei Chau	CR5	0.05	0.07	0.05	0.06	0.05	0.06	0.04	0.06	0.06	0.07
Sandy Bay	CR6	0.06	0.14	0.06	0.14	0.05	0.13	0.06	0.12	0.08	0.14
Green Island	CR7	0.15	0.13	0.14	0.12	0.11	0.10	0.11	0.10	0.19	0.14
Kau Yi Chau	CR8	0.14	0.16	0.12	0.14	0.10	0.11	0.13	0.15	0.16	0.18
Kau Yi Chau	CR9	0.14	0.15	0.12	0.13	0.10	0.11	0.13	0.14	0.16	0.17

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Sensitive Receivers	Assessment Point	Scenario 1		Scenario 2		Scenario 3		Scenario 4		Scenario 5	
		Elutriate NH <sub>3</sub> -N concentration (mg/L)		Elutriate NH <sub>3</sub> -N concentration (mg/L)		Elutriate NH <sub>3</sub> -N concentration (mg/L)		Elutriate NH <sub>3</sub> -N concentration (mg/L)		Elutriate NH <sub>3</sub> -N concentration (mg/L)	
		Dry Season	Wet Season	Dry Season	Wet Season	Dry Season	Wet Season	Dry Season	Wet Season	Dry Season	Wet Season
Kau Yi Chau	CR10	0.13	0.14	0.12	0.12	0.09	0.10	0.12	0.12	0.15	0.14
Siu Kau Yi Chau	CR11	0.14	0.16	0.13	0.14	0.10	0.11	0.13	0.14	0.17	0.17
Siu Kau Yi Chau	CR12	0.14	0.15	0.13	0.13	0.10	0.11	0.13	0.13	0.17	0.17
Siu Kau Yi Chau	CR13	0.14	0.14	0.12	0.12	0.09	0.10	0.13	0.12	0.16	0.14
Peng Chau	CR14	0.14	0.14	0.13	0.12	0.09	0.10	0.13	0.12	0.16	0.15
Peng Chau	CR15	0.12	0.13	0.11	0.11	0.08	0.10	0.12	0.11	0.15	0.14
Peng Chau	CR16	0.13	0.14	0.12	0.12	0.09	0.10	0.12	0.12	0.16	0.15
Peng Chau	CR17	0.13	0.14	0.12	0.12	0.09	0.10	0.12	0.12	0.15	0.15
Peng Chau	CR18	0.12	0.12	0.11	0.10	0.08	0.09	0.11	0.10	0.14	0.12
<b>Fish Culture Zones</b>											
Ma Wan	F1	0.15	0.12	0.14	0.10	0.10	0.09	0.15	0.11	0.19	0.12
Lo Tik Wan	F2	0.04	0.10	0.04	0.09	0.03	0.08	0.03	0.09	0.04	0.10
Sok Kwu Wan	F3	0.03	0.06	0.03	0.05	0.02	0.05	0.02	0.06	0.03	0.06
Cheung Sha Wan	F4	0.08	0.11	0.07	0.09	0.06	0.08	0.07	0.09	0.09	0.11
<b>Cooling Water Intakes</b>											
Tsuen Wan	C1	0.92	0.36	0.92	0.34	0.10	0.08	1.07	0.40	1.12	0.42
MTRC Tsing Yi Station	C2	1.06	1.01	1.05	1.00	0.09	0.09	1.31	1.16	1.35	1.19
MTRC Kowloon Station	C3	0.04	0.15	0.04	0.13	0.01	0.08	0.10	0.19	0.10	0.20
China H.K. City	C4	0.04	0.17	0.04	0.15	0.01	0.09	0.10	0.21	0.10	0.22
Sha Wan Drive	C5	0.07	0.15	0.06	0.15	0.05	0.14	0.06	0.14	0.08	0.15
Queen Mary Hospital	C6	0.06	0.14	0.06	0.13	0.05	0.12	0.06	0.11	0.08	0.13
Wah Fu Estate	C7	0.05	0.08	0.05	0.08	0.04	0.07	0.04	0.07	0.05	0.08
Kwai Chung Hospital	EMSD1	0.47	0.56	0.47	0.54	0.06	0.09	0.77	0.72	0.80	0.74

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Sensitive Receivers	Assessment Point	Scenario 1 Elutriate NH <sub>3</sub> -N concentration (mg/L)		Scenario 2 Elutriate NH <sub>3</sub> -N concentration (mg/L)		Scenario 3 Elutriate NH <sub>3</sub> -N concentration (mg/L)		Scenario 4 Elutriate NH <sub>3</sub> -N concentration (mg/L)		Scenario 5 Elutriate NH <sub>3</sub> -N concentration (mg/L)	
		Dry Season	Wet Season	Dry Season	Wet Season	Dry Season	Wet Season	Dry Season	Wet Season	Dry Season	Wet Season
<b>WSD Flushing Water Intakes</b>											
Tsing Yi	WSD1	<b>1.24</b>	<b>1.14</b>	<b>1.23</b>	<b>1.12</b>	0.09	0.10	<b>1.48</b>	<b>1.28</b>	<b>1.52</b>	<b>1.32</b>
Kennedy Town	WSD2	0.10	0.17	0.10	0.16	0.07	0.13	0.10	0.14	0.14	0.19
Sheung Wan	WSD3	0.06	0.20	0.06	0.18	0.02	0.11	0.10	0.23	0.12	0.26
Central Water Front	WSD4	0.04	0.18	0.04	0.16	0.01	0.10	0.09	0.19	0.10	0.21
Ap Lei Chau	WSD5	0.04	0.09	0.04	0.08	0.03	0.07	0.03	0.07	0.04	0.09
Kowloon South	WSD6	0.08	0.19	0.08	0.16	0.01	0.10	0.24	0.24	0.24	0.25
Cheung Sha Wan	WSD7	0.05	0.16	0.05	0.13	0.01	0.09	0.14	0.18	0.14	0.19
Tsuen Wan	WSD8	0.93	0.35	0.92	0.33	0.10	0.08	<b>1.08</b>	0.39	<b>1.13</b>	0.41
Near Hong Kong Garden	WSD9	0.18	0.12	0.17	0.10	0.10	0.08	0.17	0.10	0.22	0.12
Lamma Power Station	WSD10	0.01	0.06	0.01	0.05	0.01	0.05	0.01	0.05	0.01	0.06
Kwai Chung Hospital	EMSD1	0.47	0.56	0.47	0.54	0.06	0.09	0.77	0.72	0.80	0.74

- Value in **Bold** indicates exceedance of relevant WSD's Water Quality criteria.

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Table A3.12b: Predicted Elutriate Ammoniacal Nitrogen Concentrations at Water Sensitive Receivers (with the excision of hotspot S2)

Sensitive Receivers	Assessment Point	Scenario 1		Scenario 2		Scenario 3		Scenario 4		Scenario 5	
		Elutriate NH <sub>3</sub> -N concentration (mg/L)		Elutriate NH <sub>3</sub> -N concentration (mg/L)		Elutriate NH <sub>3</sub> -N concentration (mg/L)		Elutriate NH <sub>3</sub> -N concentration (mg/L)		Elutriate NH <sub>3</sub> -N concentration (mg/L)	
		Dry Season	Wet Season	Dry Season	Wet Season	Dry Season	Wet Season	Dry Season	Wet Season	Dry Season	Wet Season
<b>Gazetted Beaches</b>											
Tung Wan, Ma Wan	B1	0.16	0.14	0.14	0.13	0.11	0.11	0.15	0.12	0.19	0.16
Approach	B2	0.71	0.15	0.70	0.13	0.11	0.08	0.80	0.14	0.86	0.16
Ting Kau	B3	0.56	0.14	0.56	0.12	0.10	0.08	0.62	0.13	0.67	0.15
Lido	B4	0.38	0.12	0.37	0.10	0.11	0.08	0.39	0.10	0.45	0.12
Casam	B5	0.21	0.13	0.20	0.11	0.11	0.10	0.20	0.12	0.26	0.14
Hoi Mei Wan	B6	0.19	0.13	0.18	0.11	0.11	0.10	0.19	0.11	0.24	0.14
Gemini	B7	0.18	0.13	0.17	0.11	0.11	0.10	0.18	0.11	0.23	0.14
Angler's	B8	0.18	0.13	0.17	0.11	0.11	0.10	0.17	0.11	0.22	0.14
Lo So Shing	B9	0.01	0.06	0.01	0.05	0.01	0.05	0.01	0.05	0.01	0.06
Hung Shing Yeh	B10	0.01	0.06	0.01	0.05	0.01	0.05	0.01	0.05	0.01	0.06
<b>Corals</b>											
Pak Kok	CR1	0.10	0.11	0.09	0.09	0.09	0.10	0.09	0.09	0.10	0.10
Shek Kok Tsui	CR2	0.08	0.11	0.07	0.08	0.07	0.09	0.07	0.09	0.08	0.10
Luk Chau	CR3	0.05	0.05	0.05	0.04	0.05	0.05	0.05	0.04	0.05	0.05
Wong Chuk Kok	CR4	0.04	0.03	0.04	0.03	0.04	0.03	0.03	0.03	0.04	0.03
Ap Lei Chau	CR5	0.05	0.06	0.05	0.05	0.05	0.06	0.04	0.05	0.06	0.06
Sandy Bay	CR6	0.06	0.13	0.06	0.13	0.05	0.13	0.05	0.11	0.08	0.12
Green Island	CR7	0.13	0.12	0.13	0.11	0.11	0.10	0.10	0.09	0.18	0.13
Kau Yi Chau	CR8	0.12	0.15	0.11	0.12	0.10	0.11	0.11	0.13	0.14	0.16
Kau Yi Chau	CR9	0.13	0.14	0.11	0.12	0.10	0.11	0.12	0.12	0.15	0.16

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Sensitive Receivers	Assessment Point	Scenario 1		Scenario 2		Scenario 3		Scenario 4		Scenario 5	
		Elutriate NH <sub>3</sub> -N concentration (mg/L)		Elutriate NH <sub>3</sub> -N concentration (mg/L)		Elutriate NH <sub>3</sub> -N concentration (mg/L)		Elutriate NH <sub>3</sub> -N concentration (mg/L)		Elutriate NH <sub>3</sub> -N concentration (mg/L)	
		Dry Season	Wet Season	Dry Season	Wet Season	Dry Season	Wet Season	Dry Season	Wet Season	Dry Season	Wet Season
Kau Yi Chau	CR10	0.12	0.13	0.11	0.11	0.09	0.10	0.11	0.11	0.14	0.13
Siu Kau Yi Chau	CR11	0.13	0.14	0.12	0.12	0.10	0.11	0.12	0.12	0.16	0.16
Siu Kau Yi Chau	CR12	0.13	0.14	0.12	0.12	0.10	0.11	0.12	0.12	0.16	0.15
Siu Kau Yi Chau	CR13	0.12	0.12	0.11	0.11	0.09	0.10	0.11	0.10	0.15	0.13
Peng Chau	CR14	0.12	0.13	0.11	0.11	0.09	0.10	0.12	0.11	0.15	0.14
Peng Chau	CR15	0.11	0.12	0.10	0.10	0.08	0.10	0.10	0.10	0.13	0.13
Peng Chau	CR16	0.12	0.13	0.11	0.11	0.09	0.10	0.11	0.11	0.14	0.14
Peng Chau	CR17	0.12	0.13	0.11	0.11	0.09	0.10	0.11	0.11	0.14	0.14
Peng Chau	CR18	0.11	0.11	0.10	0.09	0.08	0.09	0.10	0.09	0.13	0.11
<b>Fish Culture Zones</b>											
Ma Wan	F1	0.14	0.11	0.13	0.09	0.10	0.09	0.13	0.10	0.17	0.11
Lo Tik Wan	F2	0.04	0.09	0.03	0.08	0.03	0.08	0.03	0.08	0.04	0.09
Sok Kwu Wan	F3	0.03	0.06	0.02	0.05	0.02	0.05	0.02	0.05	0.03	0.06
Cheung Sha Wan	F4	0.07	0.10	0.06	0.08	0.06	0.08	0.06	0.08	0.08	0.10
<b>Cooling Water Intakes</b>											
Tsuen Wan	C1	0.72	0.29	0.71	0.27	0.10	0.08	0.87	0.33	0.91	0.35
MTRC Tsing Yi Station	C2	0.82	0.79	0.82	0.77	0.09	0.09	1.07	0.93	1.12	0.97
MTRC Kowloon Station	C3	0.03	0.13	0.03	0.11	0.01	0.08	0.09	0.17	0.10	0.18
China H.K. City	C4	0.03	0.14	0.03	0.12	0.01	0.09	0.09	0.19	0.10	0.20
Sha Wan Drive	C5	0.06	0.14	0.06	0.13	0.05	0.14	0.05	0.12	0.08	0.13
Queen Mary Hospital	C6	0.06	0.12	0.06	0.12	0.05	0.12	0.05	0.10	0.07	0.12
Wah Fu Estate	C7	0.04	0.08	0.04	0.07	0.04	0.07	0.03	0.06	0.05	0.08
Kwai Chung Hospital	EMSD1	0.37	0.45	0.37	0.43	0.06	0.09	0.67	0.60	0.70	0.63

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Sensitive Receivers	Assessment Point	Scenario 1		Scenario 2		Scenario 3		Scenario 4		Scenario 5	
		Elutriate NH <sub>3</sub> -N concentration (mg/L)		Elutriate NH <sub>3</sub> -N concentration (mg/L)		Elutriate NH <sub>3</sub> -N concentration (mg/L)		Elutriate NH <sub>3</sub> -N concentration (mg/L)		Elutriate NH <sub>3</sub> -N concentration (mg/L)	
		Dry Season	Wet Season	Dry Season	Wet Season	Dry Season	Wet Season	Dry Season	Wet Season	Dry Season	Wet Season
<b>WSD Flushing Water Intakes</b>											
Tsing Yi	WSD1	0.96	0.88	0.96	0.87	0.09	0.10	<b>1.20</b>	<b>1.03</b>	<b>1.24</b>	<b>1.06</b>
Kennedy Town	WSD2	0.09	0.16	0.09	0.14	0.07	0.13	0.09	0.13	0.13	0.17
Sheung Wan	WSD3	0.05	0.18	0.05	0.15	0.02	0.11	0.10	0.20	0.11	0.24
Central Water Front	WSD4	0.03	0.16	0.03	0.14	0.01	0.10	0.08	0.17	0.09	0.19
Ap Lei Chau	WSD5	0.03	0.08	0.04	0.07	0.03	0.07	0.03	0.07	0.04	0.08
Kowloon South	WSD6	0.07	0.17	0.07	0.14	0.01	0.10	0.22	0.21	0.22	0.23
Cheung Sha Wan	WSD7	0.04	0.14	0.04	0.11	0.01	0.09	0.13	0.16	0.13	0.17
Tsuen Wan	WSD8	0.73	0.28	0.72	0.27	0.10	0.08	0.87	0.32	0.92	0.34
Near Hong Kong Garden	WSD9	0.16	0.11	0.15	0.09	0.10	0.08	0.15	0.09	0.20	0.11
Lamma Power Station	WSD10	0.01	0.06	0.01	0.04	0.01	0.05	0.01	0.05	0.01	0.05
Kwai Chung Hospital	EMSD1	0.37	0.45	0.37	0.43	0.06	0.09	0.67	0.60	0.70	0.63

- Value in **Bold** indicates exceedance of relevant WSD's Water Quality criteria.

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Table A3.12c: Predicted Elutriate Ammoniacal Nitrogen Concentrations at Water Sensitive Receivers (for only hotspot S2 case)

Sensitive Receivers	Assessment Point	Elutriate NH <sub>3</sub> -N concentration (mg/L)	
		Dry Season	Wet Season
<b>Gazetted Beaches</b>			
Tung Wan, Ma Wan	B1	0.25	0.19
Approach	B2	2.59	0.32
Ting Kau	B3	1.97	0.28
Lido	B4	1.18	0.18
Casam	B5	0.45	0.18
Hoi Mei Wan	B6	0.39	0.17
Gemini	B7	0.36	0.17
Angler's	B8	0.36	0.17
Lo So Shing	B9	0.01	0.06
Hung Shing Yeh	B10	0.01	0.06
<b>Corals</b>			
Pak Kok	CR1	0.12	0.12
Shek Kok Tsui	CR2	0.09	0.11
Luk Chau	CR3	0.06	0.06
Wong Chuk Kok	CR4	0.04	0.04
Ap Lei Chau	CR5	0.05	0.07
Sandy Bay	CR6	0.07	0.15
Green Island	CR7	0.14	0.14
Kau Yi Chau	CR8	0.17	0.20
Kau Yi Chau	CR9	0.17	0.19
Kau Yi Chau	CR10	0.16	0.15
Siu Kau Yi Chau	CR11	0.19	0.19
Siu Kau Yi Chau	CR12	0.18	0.19
Siu Kau Yi Chau	CR13	0.17	0.15
Peng Chau	CR14	0.18	0.16
Peng Chau	CR15	0.16	0.15
Peng Chau	CR16	0.17	0.16
Peng Chau	CR17	0.17	0.16
Peng Chau	CR18	0.16	0.13
<b>Fish Culture Zones</b>			
Ma Wan	F1	0.21	0.14
Lo Tik Wan	F2	0.04	0.10
Sok Kwu Wan	F3	0.03	0.07
Cheung Sha Wan	F4	0.09	0.12
<b>Cooling Water Intakes</b>			
Tsuen Wan	C1	2.65	0.91
MTRC Tsing Yi Station	C2	3.09	2.94
MTRC Kowloon Station	C3	0.10	0.25
China H.K. City	C4	0.10	0.28
Sha Wan Drive	C5	0.07	0.17

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Sensitive Receivers	Assessment Point	Elutriate NH <sub>3</sub> -N concentration (mg/L)	
		Dry Season	Wet Season
Queen Mary Hospital	C6	0.07	0.14
Wah Fu Estate	C7	0.05	0.09
Kwai Chung Hospital	EMSD1	1.34	1.51
<b>WSD Flushing Water Intakes</b>			
Tsing Yi	WSD1	<b>3.66</b>	<b>3.33</b>
Kennedy Town	WSD2	0.13	0.20
Sheung Wan	WSD3	0.12	0.31
Central Water Front	WSD4	0.10	0.27
Ap Lei Chau	WSD5	0.04	0.09
Kowloon South	WSD6	0.24	0.31
Cheung Sha Wan	WSD7	0.14	0.23
Tsuen Wan	WSD8	<b>2.67</b>	0.87
Near Hong Kong Garden	WSD9	0.27	0.14
Lamma Power Station	WSD10	0.01	0.06
Kwai Chung Hospital	EMSD1	<b>1.34</b>	<b>1.51</b>

- Value in **Bold** indicates exceedance of relevant WSD's Water Quality criteria.



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Table A3.12d: Predicted Elutriate UIA Concentrations at Water Sensitive Receivers (all sampling locations included)

Sensitive Receivers	Assessment Point	Scenario 1			Scenario 2			Scenario 3			Scenario 4			Scenario 5		
		Elutriate UIA concentration (mg L <sup>-1</sup> )			Elutriate UIA concentration (mg L <sup>-1</sup> )			Elutriate UIA concentration (mg L <sup>-1</sup> )			Elutriate UIA concentration (mg L <sup>-1</sup> )			Elutriate UIA concentration (mg L <sup>-1</sup> )		
		Dry Season	Wet Season	Annual Average	Dry Season	Wet Season	Annual Average	Dry Season	Wet Season	Annual Average	Dry Season	Wet Season	Annual Average	Dry Season	Wet Season	Annual Average
<b>Gazetted Beaches</b>																
Tung Wan, Ma Wan	B1	0.011	0.010	0.011	0.011	0.010	0.011	0.007	0.007	0.007	0.010	0.008	0.009	0.013	0.011	0.012
Approach	B2	0.065	0.011	<b>0.038</b>	0.066	0.011	<b>0.039</b>	0.007	0.005	0.006	0.068	0.010	<b>0.039</b>	0.073	0.012	<b>0.043</b>
Ting Kau	B3	0.051	0.010	<b>0.031</b>	0.051	0.010	<b>0.031</b>	0.006	0.005	0.006	0.052	0.009	<b>0.031</b>	0.056	0.011	<b>0.034</b>
Lido	B4	0.033	0.008	0.021	0.033	0.008	0.021	0.007	0.005	0.006	0.032	0.007	0.019	0.037	0.009	<b>0.023</b>
Casam	B5	0.016	0.009	0.013	0.017	0.009	0.013	0.007	0.006	0.006	0.015	0.007	0.011	0.019	0.010	0.015
Hoi Mei Wan	B6	0.015	0.009	0.012	0.015	0.009	0.012	0.007	0.006	0.006	0.013	0.007	0.010	0.018	0.010	0.014
Gemini	B7	0.014	0.009	0.011	0.015	0.009	0.012	0.007	0.006	0.006	0.012	0.007	0.010	0.017	0.010	0.013
Angler's	B8	0.014	0.009	0.011	0.014	0.009	0.011	0.007	0.006	0.006	0.012	0.007	0.009	0.016	0.010	0.013
Lo So Shing	B9	0.001	0.004	0.002	0.001	0.004	0.002	0.001	0.003	0.002	0.000	0.003	0.002	0.001	0.004	0.002
Hung Shing Yeh	B10	0.001	0.004	0.002	0.001	0.004	0.002	0.001	0.003	0.002	0.000	0.003	0.002	0.001	0.004	0.002
<b>Corals</b>																
Pak Kok	CR1	0.007	0.007	0.007	0.007	0.007	0.007	0.005	0.006	0.005	0.005	0.005	0.005	0.007	0.007	0.007
Shek Kok Tsui	CR2	0.005	0.007	0.006	0.005	0.007	0.006	0.004	0.005	0.005	0.004	0.005	0.005	0.006	0.007	0.006
Luk Chau	CR3	0.003	0.003	0.003	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.002	0.003	0.004	0.004	0.004
Wong Chuk Kok	CR4	0.003	0.002	0.002	0.003	0.002	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.002	0.003
Ap Lei Chau	CR5	0.003	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.002	0.003	0.003	0.004	0.004	0.004
Sandy Bay	CR6	0.004	0.008	0.006	0.005	0.010	0.008	0.003	0.008	0.006	0.003	0.006	0.005	0.005	0.009	0.007
Green Island	CR7	0.010	0.008	0.009	0.010	0.008	0.009	0.007	0.006	0.007	0.006	0.006	0.006	0.012	0.009	0.010
Kau Yi Chau	CR8	0.009	0.010	0.009	0.009	0.010	0.009	0.006	0.007	0.006	0.007	0.008	0.008	0.010	0.011	0.011
Kau Yi Chau	CR9	0.009	0.010	0.009	0.009	0.010	0.009	0.006	0.006	0.006	0.007	0.008	0.007	0.010	0.011	0.011

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Sensitive Receivers	Assessment Point	Scenario 1			Scenario 2			Scenario 3			Scenario 4			Scenario 5		
		Elutriate UIA concentration (mg L <sup>-1</sup> )			Elutriate UIA concentration (mg L <sup>-1</sup> )			Elutriate UIA concentration (mg L <sup>-1</sup> )			Elutriate UIA concentration (mg L <sup>-1</sup> )			Elutriate UIA concentration (mg L <sup>-1</sup> )		
		Dry Season	Wet Season	Annual Average	Dry Season	Wet Season	Annual Average	Dry Season	Wet Season	Annual Average	Dry Season	Wet Season	Annual Average	Dry Season	Wet Season	Annual Average
Kau Yi Chau	CR10	0.008	0.008	0.008	0.009	0.008	0.009	0.006	0.006	0.006	0.007	0.006	0.007	0.010	0.009	0.010
Siu Kau Yi Chau	CR11	0.009	0.010	0.010	0.009	0.010	0.010	0.006	0.007	0.006	0.007	0.007	0.007	0.011	0.011	0.011
Siu Kau Yi Chau	CR12	0.009	0.010	0.009	0.009	0.010	0.010	0.006	0.006	0.006	0.007	0.007	0.007	0.011	0.011	0.011
Siu Kau Yi Chau	CR13	0.009	0.008	0.009	0.009	0.008	0.009	0.006	0.006	0.006	0.007	0.006	0.007	0.010	0.009	0.010
Peng Chau	CR14	0.009	0.009	0.009	0.009	0.009	0.009	0.006	0.006	0.006	0.007	0.007	0.007	0.010	0.010	0.010
Peng Chau	CR15	0.008	0.008	0.008	0.008	0.008	0.008	0.005	0.006	0.005	0.006	0.006	0.006	0.009	0.009	0.009
Peng Chau	CR16	0.009	0.009	0.009	0.009	0.009	0.009	0.006	0.006	0.006	0.007	0.006	0.007	0.010	0.010	0.010
Peng Chau	CR17	0.008	0.009	0.008	0.009	0.009	0.009	0.005	0.006	0.006	0.007	0.006	0.007	0.010	0.010	0.010
Peng Chau	CR18	0.008	0.007	0.008	0.008	0.007	0.008	0.005	0.005	0.005	0.006	0.005	0.006	0.009	0.008	0.009
<b>Fish Culture Zones</b>																
Ma Wan	F1	0.010	0.007	0.009	0.010	0.007	0.009	0.006	0.005	0.006	0.008	0.006	0.007	0.012	0.008	0.010
Lo Tik Wan	F2	0.002	0.006	0.004	0.003	0.006	0.004	0.002	0.005	0.003	0.002	0.004	0.003	0.003	0.006	0.004
Sok Kwu Wan	F3	0.002	0.004	0.003	0.002	0.004	0.003	0.002	0.003	0.002	0.001	0.003	0.002	0.002	0.004	0.003
Cheung Sha Wan	F4	0.005	0.006	0.006	0.005	0.006	0.006	0.003	0.005	0.004	0.004	0.005	0.004	0.006	0.007	0.006
<b>Cooling Water Intakes</b>																
Tsuen Wan	C1	0.067	0.025	<b>0.046</b>	0.067	0.025	<b>0.046</b>	0.006	0.005	0.005	0.072	0.026	<b>0.049</b>	0.076	0.028	<b>0.052</b>
MTRC Tsing Yi Station	C2	0.076	0.073	<b>0.075</b>	0.077	0.073	<b>0.075</b>	0.006	0.006	0.006	0.087	0.078	<b>0.083</b>	0.091	0.082	<b>0.086</b>
MTRC Kln. Station	C3	0.003	0.010	0.006	0.003	0.010	0.006	0.000	0.005	0.003	0.006	0.010	0.008	0.006	0.013	0.009
China H.K. City	C4	0.003	0.011	0.007	0.003	0.011	0.007	0.000	0.005	0.003	0.006	0.012	0.009	0.006	0.014	0.010
Sha Wan Drive	C5	0.004	0.009	0.007	0.005	0.011	0.008	0.003	0.008	0.006	0.003	0.007	0.005	0.005	0.010	0.007

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		Elutriate UIA concentration (mg L <sup>-1</sup> )			Elutriate UIA concentration (mg L <sup>-1</sup> )			Elutriate UIA concentration (mg L <sup>-1</sup> )			Elutriate UIA concentration (mg L <sup>-1</sup> )			Elutriate UIA concentration (mg L <sup>-1</sup> )		
		Dry Season	Wet Season	Annual Average	Dry Season	Wet Season	Annual Average	Dry Season	Wet Season	Annual Average	Dry Season	Wet Season	Annual Average	Dry Season	Wet Season	Annual Average
Queen Mary Hospital	C6	0.004	0.008	0.006	0.005	0.010	0.007	0.003	0.008	0.005	0.003	0.006	0.004	0.005	0.008	0.007
Wah Fu Estate	C7	0.003	0.005	0.004	0.003	0.006	0.004	0.003	0.004	0.003	0.002	0.004	0.003	0.003	0.005	0.004
Kwai Chung Hospital	EMSD1	0.034	0.040	<b>0.037</b>	0.034	0.039	<b>0.037</b>	0.003	0.005	0.004	0.048	0.046	<b>0.047</b>	0.050	0.049	<b>0.049</b>
<b>WSD Flushing Water Intakes</b>																
Tsing Yi	WSD1	0.090	0.082	<b>0.086</b>	0.090	0.082	<b>0.086</b>	0.006	0.006	0.006	0.100	0.088	<b>0.094</b>	0.104	0.091	<b>0.097</b>
Kennedy Town	WSD2	0.007	0.011	0.009	0.007	0.011	0.009	0.005	0.008	0.006	0.006	0.008	0.007	0.009	0.012	0.010
Sheung Wan	WSD3	0.004	0.013	0.008	0.004	0.013	0.008	0.002	0.007	0.004	0.006	0.013	0.009	0.007	0.016	0.012
Central Water Front	WSD4	0.003	0.011	0.007	0.003	0.011	0.007	0.001	0.006	0.003	0.005	0.010	0.008	0.006	0.014	0.010
Ap Lei Chau	WSD5	0.002	0.006	0.004	0.003	0.006	0.004	0.002	0.004	0.003	0.002	0.004	0.003	0.003	0.006	0.004
Kowloon South	WSD6	0.006	0.012	0.009	0.006	0.012	0.009	0.001	0.006	0.003	0.013	0.013	0.013	0.014	0.016	0.015
Cheung Sha Wan	WSD7	0.004	0.010	0.007	0.004	0.009	0.007	0.000	0.005	0.003	0.008	0.010	0.009	0.008	0.012	0.010
Tsuen Wan	WSD8	0.067	0.024	<b>0.046</b>	0.067	0.024	<b>0.046</b>	0.006	0.005	0.005	0.073	0.025	<b>0.049</b>	0.077	0.027	<b>0.052</b>
Near Hong Kong Garden	WSD9	0.012	0.007	0.009	0.012	0.007	0.010	0.006	0.005	0.006	0.010	0.005	0.008	0.014	0.008	0.011
Lamma Power Station	WSD10	0.001	0.004	0.002	0.001	0.004	0.002	0.001	0.003	0.002	0.001	0.003	0.002	0.001	0.004	0.002
Kwai Chung Hospital	EMSD1	0.034	0.040	<b>0.037</b>	0.034	0.039	<b>0.037</b>	0.003	0.005	0.004	0.048	0.046	<b>0.047</b>	0.050	0.049	<b>0.049</b>

- Value in **Bold** indicates exceedance of relevant annual mean criteria.

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Table A3.12e: Predicted Elutriate UIA Concentrations at Water Sensitive Receivers (with the excision of hotspot S2)

Sensitive Receivers	Assessment Point	Scenario 1			Scenario 2			Scenario 3			Scenario 4			Scenario 5		
		Elutriate UIA concentration (mg L <sup>-1</sup> )			Elutriate UIA concentration (mg L <sup>-1</sup> )			Elutriate UIA concentration (mg L <sup>-1</sup> )			Elutriate UIA concentration (mg L <sup>-1</sup> )			Elutriate UIA concentration (mg L <sup>-1</sup> )		
		Dry Season	Wet Season	Annual Average	Dry Season	Wet Season	Annual Average	Dry Season	Wet Season	Annual Average	Dry Season	Wet Season	Annual Average	Dry Season	Wet Season	Annual Average
<b>Gazetted Beaches</b>																
Tung Wan, Ma Wan	B1	0.010	0.009	0.009	0.010	0.009	0.010	0.007	0.007	0.007	0.008	0.007	0.007	0.012	0.010	0.011
Approach	B2	0.051	0.009	<b>0.030</b>	0.051	0.010	<b>0.030</b>	0.007	0.005	0.006	0.054	0.008	<b>0.031</b>	0.058	0.011	<b>0.034</b>
Ting Kau	B3	0.040	0.009	<b>0.024</b>	0.040	0.009	<b>0.025</b>	0.006	0.005	0.006	0.041	0.007	<b>0.024</b>	0.045	0.010	<b>0.028</b>
Lido	B4	0.026	0.007	0.017	0.027	0.007	0.017	0.007	0.005	0.006	0.026	0.006	0.016	0.030	0.008	0.019
Casam	B5	0.014	0.008	0.011	0.014	0.008	0.011	0.007	0.006	0.006	0.012	0.006	0.009	0.017	0.009	0.013
Hoi Mei Wan	B6	0.013	0.008	0.010	0.013	0.008	0.011	0.007	0.006	0.006	0.011	0.006	0.008	0.016	0.009	0.012
Gemini	B7	0.012	0.008	0.010	0.013	0.008	0.010	0.007	0.006	0.006	0.010	0.006	0.008	0.015	0.009	0.012
Angler's	B8	0.012	0.008	0.010	0.012	0.008	0.010	0.007	0.006	0.006	0.010	0.006	0.008	0.014	0.009	0.012
Lo So Shing	B9	0.001	0.003	0.002	0.001	0.003	0.002	0.001	0.003	0.002	0.000	0.002	0.001	0.001	0.004	0.002
Hung Shing Yeh	B10	0.001	0.003	0.002	0.001	0.003	0.002	0.001	0.003	0.002	0.000	0.002	0.001	0.001	0.004	0.002
<b>Corals</b>																
Pak Kok	CR1	0.006	0.006	0.006	0.006	0.006	0.006	0.005	0.006	0.005	0.004	0.005	0.005	0.007	0.007	0.007
Shek Kok Tsui	CR2	0.005	0.006	0.005	0.005	0.006	0.006	0.004	0.005	0.005	0.004	0.005	0.004	0.005	0.006	0.006
Luk Chau	CR3	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.003	0.003	0.003
Wong Chuk Kok	CR4	0.002	0.002	0.002	0.003	0.002	0.003	0.002	0.002	0.002	0.002	0.001	0.002	0.003	0.002	0.002
Ap Lei Chau	CR5	0.003	0.004	0.003	0.004	0.004	0.004	0.003	0.003	0.003	0.002	0.003	0.002	0.004	0.004	0.004
Sandy Bay	CR6	0.004	0.008	0.006	0.004	0.010	0.007	0.003	0.008	0.006	0.003	0.006	0.004	0.005	0.008	0.006
Green Island	CR7	0.009	0.007	0.008	0.009	0.008	0.009	0.007	0.006	0.007	0.006	0.005	0.005	0.011	0.008	0.010
Kau Yi Chau	CR8	0.008	0.009	0.008	0.008	0.009	0.008	0.006	0.007	0.006	0.006	0.007	0.007	0.009	0.010	0.010
Kau Yi Chau	CR9	0.008	0.009	0.008	0.008	0.009	0.008	0.006	0.006	0.006	0.006	0.007	0.006	0.009	0.010	0.010

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		Elutriate UIA concentration (mg L <sup>-1</sup> )			Elutriate UIA concentration (mg L <sup>-1</sup> )			Elutriate UIA concentration (mg L <sup>-1</sup> )			Elutriate UIA concentration (mg L <sup>-1</sup> )			Elutriate UIA concentration (mg L <sup>-1</sup> )		
		Dry Season	Wet Season	Annual Average	Dry Season	Wet Season	Annual Average	Dry Season	Wet Season	Annual Average	Dry Season	Wet Season	Annual Average	Dry Season	Wet Season	Annual Average
Kau Yi Chau	CR10	0.007	0.008	0.008	0.008	0.008	0.008	0.006	0.006	0.006	0.006	0.005	0.006	0.009	0.008	0.009
Siu Kau Yi Chau	CR11	0.008	0.009	0.009	0.008	0.009	0.009	0.006	0.007	0.006	0.006	0.006	0.006	0.010	0.010	0.010
Siu Kau Yi Chau	CR12	0.008	0.009	0.008	0.008	0.009	0.008	0.006	0.006	0.006	0.006	0.006	0.006	0.010	0.010	0.010
Siu Kau Yi Chau	CR13	0.008	0.008	0.008	0.008	0.008	0.008	0.006	0.006	0.006	0.006	0.005	0.006	0.009	0.008	0.009
Peng Chau	CR14	0.008	0.008	0.008	0.008	0.008	0.008	0.006	0.006	0.006	0.006	0.006	0.006	0.009	0.009	0.009
Peng Chau	CR15	0.007	0.007	0.007	0.007	0.007	0.007	0.005	0.006	0.005	0.006	0.005	0.005	0.008	0.008	0.008
Peng Chau	CR16	0.008	0.008	0.008	0.008	0.008	0.008	0.006	0.006	0.006	0.006	0.006	0.006	0.009	0.009	0.009
Peng Chau	CR17	0.007	0.008	0.008	0.008	0.008	0.008	0.005	0.006	0.006	0.006	0.006	0.006	0.009	0.009	0.009
Peng Chau	CR18	0.007	0.006	0.007	0.007	0.006	0.007	0.005	0.005	0.005	0.006	0.005	0.005	0.008	0.007	0.008
<b>Fish Culture Zones</b>																
Ma Wan	F1	0.009	0.007	0.008	0.009	0.007	0.008	0.006	0.005	0.006	0.007	0.005	0.006	0.011	0.007	0.009
Lo Tik Wan	F2	0.002	0.005	0.004	0.003	0.006	0.004	0.002	0.005	0.003	0.002	0.004	0.003	0.002	0.006	0.004
Sok Kwu Wan	F3	0.002	0.003	0.002	0.002	0.004	0.003	0.002	0.003	0.002	0.001	0.003	0.002	0.002	0.004	0.003
Cheung Sha Wan	F4	0.004	0.006	0.005	0.004	0.006	0.005	0.003	0.005	0.004	0.003	0.004	0.004	0.005	0.006	0.006
<b>Cooling Water Intakes</b>																
Tsuen Wan	C1	0.052	0.020	<b>0.036</b>	0.052	0.020	<b>0.036</b>	0.006	0.005	0.005	0.057	0.021	<b>0.039</b>	0.061	0.023	<b>0.042</b>
MTRC Tsing Yi Station	C2	0.059	0.056	<b>0.058</b>	0.059	0.056	<b>0.058</b>	0.006	0.006	0.006	0.070	0.062	<b>0.066</b>	0.074	0.065	<b>0.070</b>
MTRC Kln. Station	C3	0.002	0.008	0.005	0.002	0.008	0.005	0.000	0.005	0.003	0.005	0.009	0.007	0.005	0.011	0.008
China H.K. City	C4	0.002	0.009	0.006	0.002	0.009	0.006	0.000	0.005	0.003	0.005	0.010	0.008	0.005	0.012	0.009
Sha Wan Drive	C5	0.004	0.008	0.006	0.004	0.010	0.007	0.003	0.008	0.006	0.003	0.006	0.005	0.005	0.009	0.007

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		Elutriate UIA concentration (mg L <sup>-1</sup> )			Elutriate UIA concentration (mg L <sup>-1</sup> )			Elutriate UIA concentration (mg L <sup>-1</sup> )			Elutriate UIA concentration (mg L <sup>-1</sup> )			Elutriate UIA concentration (mg L <sup>-1</sup> )		
		Dry Season	Wet Season	Annual Average	Dry Season	Wet Season	Annual Average	Dry Season	Wet Season	Annual Average	Dry Season	Wet Season	Annual Average	Dry Season	Wet Season	Annual Average
Queen Mary Hospital	C6	0.004	0.007	0.005	0.004	0.009	0.006	0.003	0.008	0.005	0.003	0.005	0.004	0.005	0.008	0.006
Wah Fu Estate	C7	0.003	0.005	0.004	0.003	0.005	0.004	0.003	0.004	0.003	0.002	0.003	0.002	0.003	0.005	0.004
Kwai Chung Hospital	EMSD1	0.026	0.031	<b>0.029</b>	0.027	0.031	<b>0.029</b>	0.003	0.005	0.004	0.040	0.038	<b>0.039</b>	0.042	0.040	<b>0.041</b>
<b>WSD Flushing Water Intakes</b>																
Tsing Yi	WSD1	0.069	0.063	<b>0.066</b>	0.070	0.063	<b>0.066</b>	0.006	0.006	0.006	0.079	0.069	<b>0.074</b>	0.083	0.072	<b>0.078</b>
Kennedy Town	WSD2	0.006	0.010	0.008	0.006	0.010	0.008	0.005	0.008	0.006	0.005	0.007	0.006	0.008	0.011	0.010
Sheung Wan	WSD3	0.003	0.011	0.007	0.003	0.011	0.007	0.002	0.007	0.004	0.005	0.011	0.008	0.006	0.015	0.010
Central Water Front	WSD4	0.002	0.010	0.006	0.002	0.010	0.006	0.001	0.006	0.003	0.005	0.009	0.007	0.005	0.012	0.009
Ap Lei Chau	WSD5	0.002	0.005	0.004	0.003	0.005	0.004	0.002	0.004	0.003	0.001	0.003	0.002	0.003	0.005	0.004
Kowloon South	WSD6	0.005	0.010	0.008	0.005	0.010	0.007	0.001	0.006	0.003	0.012	0.011	0.012	0.012	0.014	0.013
Cheung Sha Wan	WSD7	0.003	0.008	0.006	0.003	0.008	0.006	0.000	0.005	0.003	0.007	0.009	0.008	0.007	0.011	0.009
Tsuen Wan	WSD8	0.052	0.019	<b>0.036</b>	0.052	0.019	<b>0.036</b>	0.006	0.005	0.005	0.058	0.020	<b>0.039</b>	0.062	0.022	<b>0.042</b>
Near Hong Kong Garden	WSD9	0.010	0.006	0.008	0.011	0.006	0.008	0.006	0.005	0.006	0.009	0.005	0.007	0.013	0.007	0.010
Lamma Power Station	WSD10	0.001	0.003	0.002	0.001	0.003	0.002	0.001	0.003	0.002	0.001	0.002	0.001	0.001	0.003	0.002
Kwai Chung Hospital	EMSD1	0.026	0.031	<b>0.029</b>	0.027	0.031	<b>0.029</b>	0.003	0.005	0.004	0.040	0.038	<b>0.039</b>	0.042	0.040	<b>0.041</b>

- Value in **Bold** indicates exceedance of relevant annual mean criteria.

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Table A3.12f: Predicted Elutriate UIA Concentrations at Water Sensitive Receivers (for only hotspot S2 case)

Sensitive Receivers	Assessment Point	Elutriate UIA concentration (mg L <sup>-1</sup> )		
		Dry Season	Wet Season	Annual average
<b>Gazetted Beaches</b>				
Tung Wan, Ma Wan	B1	0.018	0.014	0.016
Approach	B2	0.190	0.024	<b>0.107</b>
Ting Kau	B3	0.145	0.020	<b>0.083</b>
Lido	B4	0.087	0.013	<b>0.050</b>
Casam	B5	0.033	0.013	<b>0.023</b>
Hoi Mei Wan	B6	0.029	0.013	0.021
Gemini	B7	0.026	0.012	0.019
Angler's	B8	0.025	0.012	0.018
Lo So Shing	B9	0.001	0.005	0.003
Hung Shing Yeh	B10	0.001	0.005	0.003
<b>Corals</b>				
Pak Kok	CR1	0.009	0.009	0.009
Shek Kok Tsui	CR2	0.007	0.008	0.007
Luk Chau	CR3	0.004	0.004	0.004
Wong Chuk Kok	CR4	0.003	0.003	0.003
Ap Lei Chau	CR5	0.004	0.005	0.004
Sandy Bay	CR6	0.005	0.011	0.008
Green Island	CR7	0.010	0.010	0.010
Kau Yi Chau	CR8	0.012	0.015	0.013
Kau Yi Chau	CR9	0.013	0.014	0.013
Kau Yi Chau	CR10	0.012	0.011	0.012
Siu Kau Yi Chau	CR11	0.014	0.014	0.014
Siu Kau Yi Chau	CR12	0.014	0.014	0.014
Siu Kau Yi Chau	CR13	0.013	0.011	0.012
Peng Chau	CR14	0.013	0.012	0.012
Peng Chau	CR15	0.012	0.011	0.011
Peng Chau	CR16	0.013	0.012	0.012
Peng Chau	CR17	0.012	0.011	0.012
Peng Chau	CR18	0.012	0.009	0.010
<b>Fish Culture Zones</b>				
Ma Wan	F1	0.015	0.010	0.013
Lo Tik Wan	F2	0.003	0.008	0.005
Sok Kwu Wan	F3	0.002	0.005	0.003
Cheung Sha Wan	F4	0.007	0.008	0.008
<b>Cooling Water Intakes</b>				
Tsuen Wan	C1	0.195	0.067	<b>0.131</b>
MTRC Tsing Yi Station	C2	0.227	0.216	<b>0.221</b>
MTRC Kowloon Station	C3	0.008	0.019	0.013
China H.K. City	C4	0.007	0.021	0.014
Sha Wan Drive	C5	0.005	0.012	0.009
Queen Mary Hospital	C6	0.005	0.010	0.008

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Sensitive Receivers	Assessment Point	Elutriate UIA concentration (mg L <sup>-1</sup> )		
		Dry Season	Wet Season	Annual average
Wah Fu Estate	C7	0.003	0.006	0.005
Kwai Chung Hospital	EMSD1	0.098	0.111	<b>0.105</b>
<b>WSD Flushing Water Intakes</b>				
Tsing Yi	WSD1	0.269	0.244	<b>0.257</b>
Kennedy Town	WSD2	0.009	0.014	0.012
Sheung Wan	WSD3	0.008	0.023	0.016
Central Water Front	WSD4	0.007	0.019	0.013
Ap Lei Chau	WSD5	0.003	0.007	0.005
Kowloon South	WSD6	0.017	0.023	0.020
Cheung Sha Wan	WSD7	0.011	0.017	0.014
Tsuen Wan	WSD8	0.196	0.064	<b>0.130</b>
Near Hong Kong Garden	WSD9	0.020	0.010	0.015
Lamma Power Station	WSD10	0.001	0.005	0.003
Kwai Chung Hospital	EMSD1	0.098	0.111	<b>0.105</b>

- Value in **Bold** indicates exceedance of relevant annual mean criteria.