

1-hour TSP Monitoring Result for Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Phase 2 and Other Works

AMS2 - Tung Chung Development Pier

Date	Weather Condition	Start Time	1-hour TSP ($\mu\text{g}/\text{m}^3$)			Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
			1st Measurement	2nd Measurement	3rd Measurement		
2-Dec-21	Fine	13:06	65	59	54	374	500
8-Dec-21	Fine	09:08	59	62	63		
14-Dec-21	Fine	12:39	39	36	36		
20-Dec-21	Fine	12:15	42	45	44		
24-Dec-21	Fine	13:35	68	59	63		
30-Dec-21	Fine	09:11	54	62	59		
Min			36				
Max			68				
Average			54				

AMS3C - Ying Tung Estate Market Rooftop

Date	Weather Condition	Start Time	1-hour TSP ($\mu\text{g}/\text{m}^3$)			Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
			1st Measurement	2nd Measurement	3rd Measurement		
2-Dec-21	Fine	13:34	91	101	98	368	500
8-Dec-21	Fine	09:27	86	91	84		
14-Dec-21	Fine	12:28	67	65	70		
20-Dec-21	Fine	12:33	79	84	89		
24-Dec-21	Fine	13:47	115	120	125		
30-Dec-21	Fine	09:19	82	82	74		
Min			65				
Max			125				
Average			89				

AMS7C - East Sea Rescue Berth – Airport Fire Contingent Third Runway Site Office

Date	Weather Condition	Start Time	1-hour TSP ($\mu\text{g}/\text{m}^3$)			Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
			1st Measurement	2nd Measurement	3rd Measurement		
2-Dec-21	Fine	15:08	68	65	65	370	500
8-Dec-21	Fine	09:43	61	63	59		
14-Dec-21	Fine	13:00	46	44	40		
20-Dec-21	Fine	12:52	51	57	59		
24-Dec-21	Fine	13:10	74	84	78		
30-Dec-21	Fine	08:45	55	51	55		
Min			40				
Max			84				
Average			60				

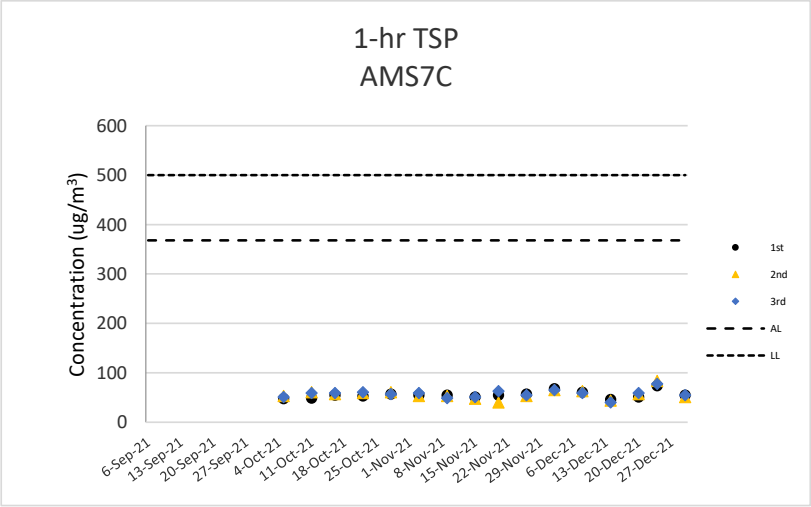
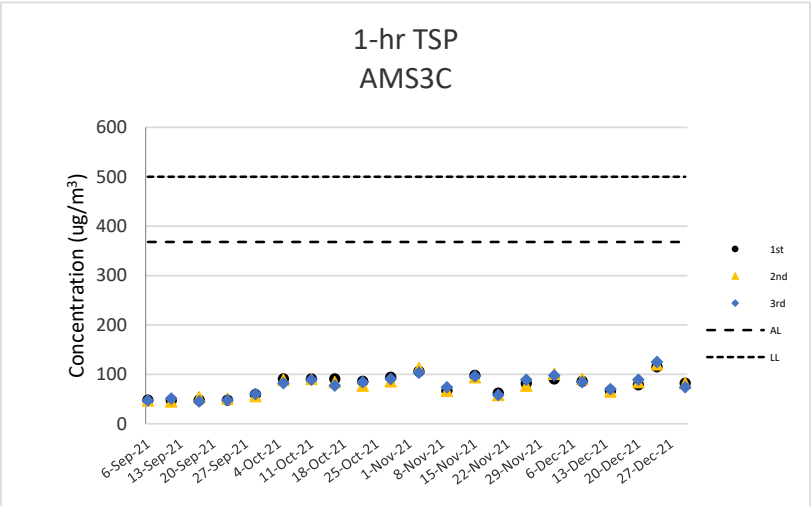
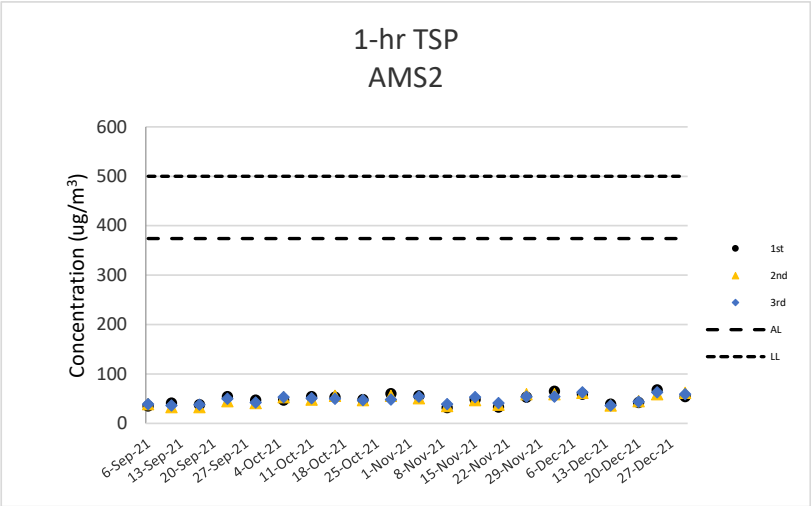
Note:

Underline: Exceedance of Action Level

Underline and Bold: Exceedance of Limit Level

1. Air quality monitoring location AMS7B was temporary suspended, effective from 10 December 2020.

2. According to the email date 11 August 2021, EPD have no comment on the Proposal for Relocation of Monitoring Location AMS 7B, the monitoring location AMS 7B are proposed to be relocated by alternative monitoring location AMS 7C for air quality monitoring.



24-hour TSP Monitoring Result for Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Phase 2 and Other Works

AMS2 - Tung Chung Development Pier

Start Date	Weather Condition	Air Temperature (K)	Atmospheric Pressure, Pa (mmHg)	Filter Weight (g)		Particulate weight (g)	Sampling Time(hrs)	Flow Rate (m ³ /min.)		Average flow (m ³ /min.)	Total volume (m ³)	Conc. (ug/m ³)	Action Level (ug/m ³)	Limit Level (ug/m ³)
				Initial	Final			Initial	Final					
2-Dec-21	Fine	287.8	766.4	2.7518	2.9023	0.1505	24	1.37	1.33	1.35	1943.2	77	176	260
8-Dec-21	Fine	293.3	766.8	2.7325	2.8788	0.1463	24	1.35	1.33	1.34	1933.0	76		
14-Dec-21	Fine	293.7	764.0	2.7184	2.9472	0.2288	24	1.59	1.58	1.59	2284.7	100		
20-Dec-21	Fine	290.4	763.3	2.7037	2.7778	0.0741	24	1.60	1.58	1.59	2289.7	32		
24-Dec-21	Fine	293.1	763.0	2.7468	2.8230	0.0762	24	1.59	1.58	1.59	2285.0	33		
30-Dec-21	Fine	291.3	768.5	2.7656	2.9466	0.1810	24	1.60	1.58	1.59	2291.6	79		
												Min	32	
												Max	100	
												Average	66	

AMS3C - Ying Tung Estate Market Rooftop

Start Date	Weather Condition	Air Temperature (K)	Atmospheric Pressure, Pa (mmHg)	Filter Weight (g)		Particulate weight (g)	Sampling Time(hrs)	Flow Rate (m ³ /min.)		Average flow (m ³ /min.)	Total volume (m ³)	Conc. (ug/m ³)	Action Level (ug/m ³)	Limit Level (ug/m ³)
				Initial	Final			Initial	Final					
2-Dec-21	Fine	287.8	766.4	2.7305	2.8685	0.1380	24	1.41	1.38	1.39	2006.9	69	167	260
8-Dec-21	Fine	293.3	766.8	2.7287	2.8488	0.1201	24	1.47	1.45	1.46	2101.5	57		
14-Dec-21	Fine	293.7	764.0	2.6737	2.7793	0.1056	24	1.56	1.55	1.56	2243.6	47		
20-Dec-21	Fine	290.4	763.3	2.6609	2.7427	0.0818	24	1.57	1.55	1.56	2247.6	36		
24-Dec-21	Fine	293.1	763.0	2.7513	2.9063	0.1550	24	1.67	1.66	1.67	2398.5	65		
30-Dec-21	Fine	291.3	768.5	2.7806	2.9000	0.1194	24	1.57	1.55	1.56	2249.1	53		
												Min	36	
												Max	69	
												Average	55	

AMS7C - East Sea Rescue Berth – Airport Fire ContingentThird Runway Site Office

Start Date	Weather Condition	Air Temperature (K)	Atmospheric Pressure, Pa (mmHg)	Filter Weight (g)		Particulate weight (g)	Sampling Time(hrs)	Flow Rate (m ³ /min.)		Average flow (m ³ /min.)	Total volume (m ³)	Conc. (ug/m ³)	Action Level (ug/m ³)	Limit Level (ug/m ³)
				Initial	Final			Initial	Final					
2-Dec-21	Fine	287.8	766.4	2.7082	2.7995	0.0913	24	1.57	1.54	1.55	2238.7	41	183	260
8-Dec-21	Fine	293.3	766.8	2.7245	2.8554	0.1309	24	1.56	1.54	1.55	2229.5	59		
14-Dec-21	Fine	293.7	764.0	2.6687	2.7503	0.0816	24	1.66	1.64	1.65	2373.3	34		
20-Dec-21	Fine	290.4	763.3	2.6704	2.7892	0.1188	24	1.53	1.51	1.52	2184.9	54		
24-Dec-21	Fine	293.1	763.0	2.7310	2.8586	0.1276	24	1.66	1.64	1.65	2373.6	54		
30-Dec-21	Fine	291.3	768.5	2.7116	2.9027	0.1911	24	1.53	1.51	1.52	2186.8	87		
												Min	34	
												Max	87	
												Average	55	

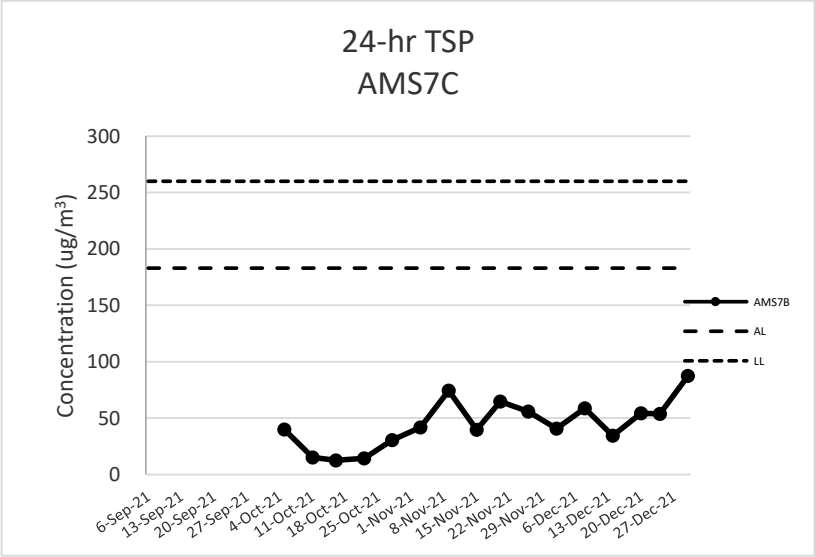
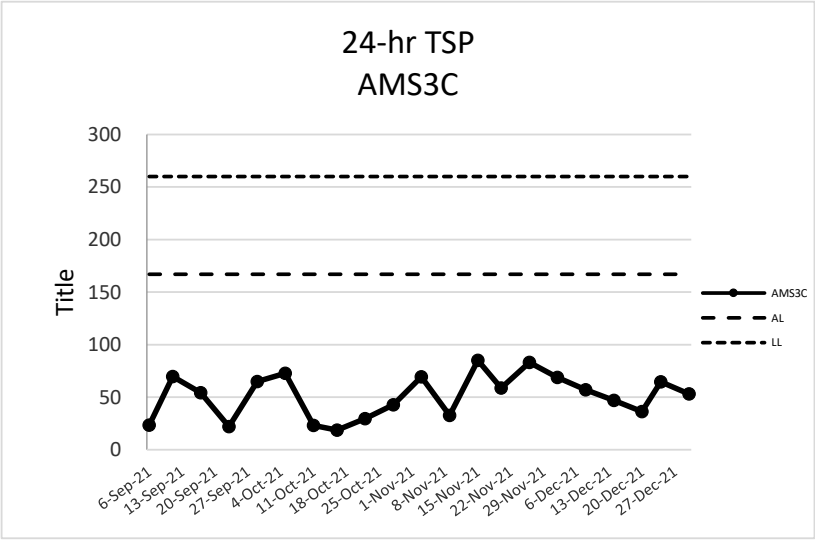
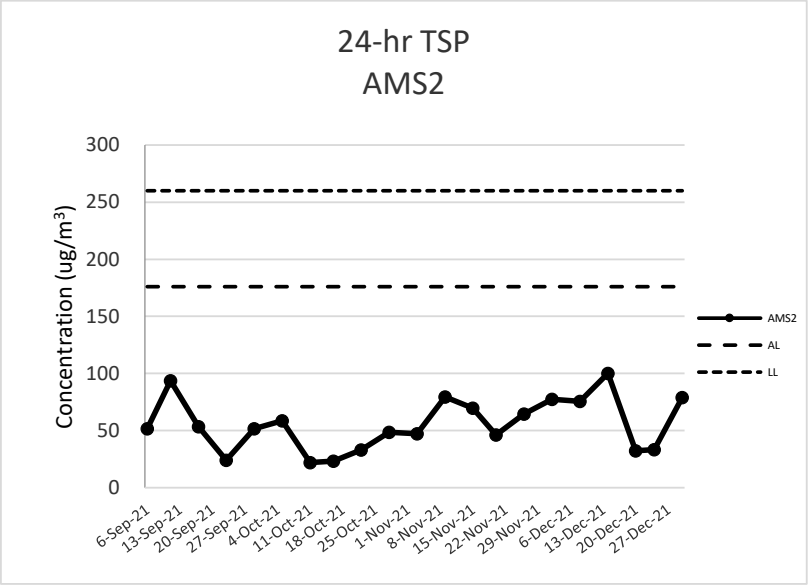
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**Noise Impact Monitoring Result for
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing Facilities – Phase 2 and Other Works**

NMS2 - Seaview Crescent

Date	Start Time	L _{eq} 30min dB(A)	L ₁₀ dB(A)	L ₉₀ dB(A)	Wind Speed (m/s)	Weather	Limit Level dB(A)
2-Dec-21	14:23	61	62	58	0.7	Fine	75
8-Dec-21	10:06	64	66	61	0.9	Fine	75
14-Dec-21	11:02	59	60	55	0.2	Fine	75
20-Dec-21	12:48	65	62	71	0.3	Fine	75
30-Dec-21	10:11	62	63	59	0.7	Fine	75
	Max	65					
	Min	59					

NMS3C - Ying Tung Estate Refuse Collection Point

Date	Start Time	L _{eq} 30min dB(A)	L ₁₀ dB(A)	L ₉₀ dB(A)	Wind Speed (m/s)	Weather	Limit Level dB(A)	Corrected Noise Level*
2-Dec-21	13:31	70	73	67	0.9	Fine	70	
8-Dec-21	11:07	69	72	68	0.7	Fine	70	
14-Dec-21	11:55	63	66	56	0.4	Fine	70	
20-Dec-21	13:33	62	61	66	0.6	Fine	70	
30-Dec-21	09:23	66	69	64	1.2	Fine	70	
	Max	70						
	Min	62						

Note:

NMS2: Façade Measurement

NMS3C: Free-field measurement (+3dB(A) correction has been applied), reduction to 65dB(A) during school examination periods will be applied.

No raining or wind with speed over 5 m/s was observed during noise monitoring according to the onsite observation.

*Corrected Noise Level = $\text{LOG}(10^{(\text{Impact Noise Level} / 10)} - 10^{(\text{Baseline Noise Level} / 10)}) \times 10$

Baseline Noise Level = 66.3 dB(A)

