

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		
1-Mar-22	Fine	13:13	60	56	56	374	500
7-Mar-22	Fine	09:33	57	51	56		
12-Mar-22	Fine	14:17	60	57	63		
18-Mar-22	Fine	09:34	42	45	47		
24-Mar-22	Fine	09:38	45	44	50		
		Min	42				
		Max	63				
		Average	53				

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		
1-Mar-22	Fine	15:31	84	82	79	368	500
7-Mar-22	Fine	08:50	86	91	84		
12-Mar-22	Fine	14:50	94	82	77		
18-Mar-22	Fine	09:43	96	98	89		
24-Mar-22	Fine	09:51	110	101	108		
		Min	77				
		Max	110				
		Average	91				

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		
1-Mar-22	Fine	13:26	53	49	46	370	500
7-Mar-22	Fine	09:22	76	78	78		
12-Mar-22	Fine	14:35	55	63	67		
18-Mar-22	Fine	09:20	70	67	68		
24-Mar-22	Fine	10:04	70	70	76		
		Min	46				
		Max	78				
		Average	66				

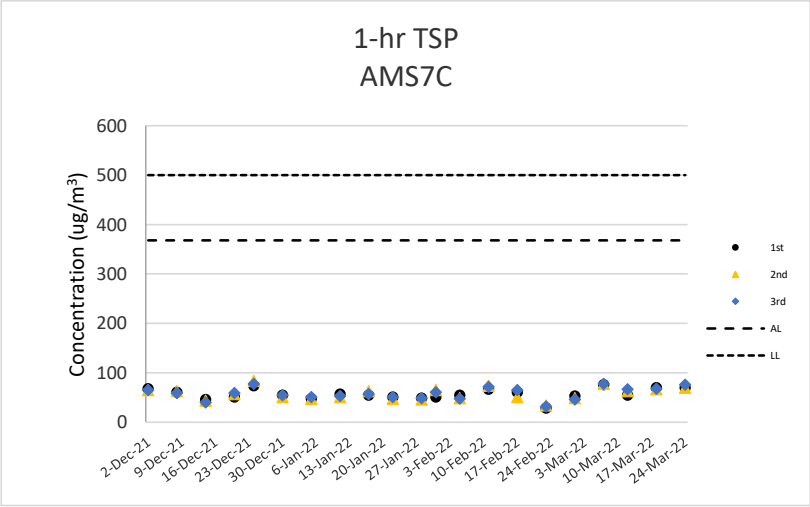
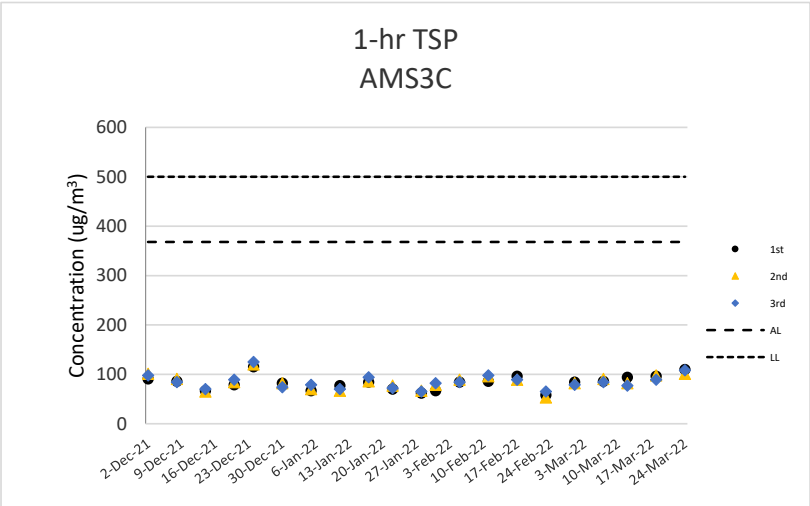
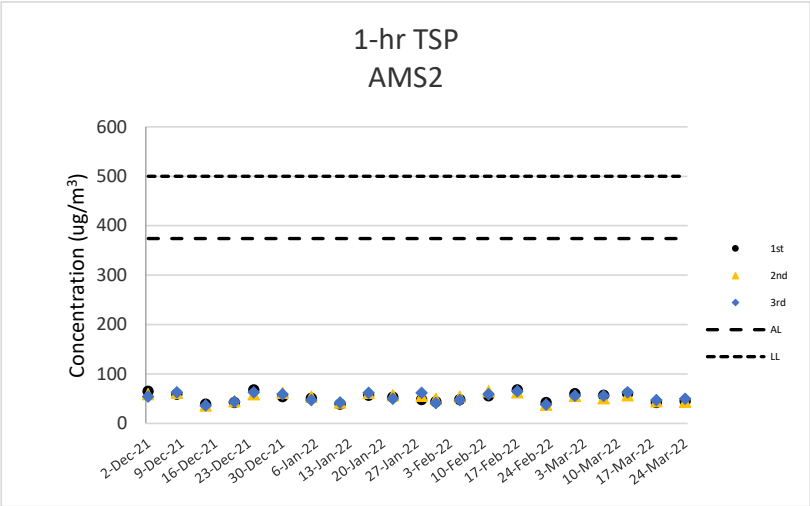
Note:

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					
1-Mar-22	Fine	295.2	762.7	2.6980	2.7813	0.0833	24	1.59	1.59	1.59	2289.6	36	176	260
7-Mar-22	Fine	293.0	763.0	2.7093	2.7894	0.0801	24	1.60	1.59	1.59	2293.1	35		
12-Mar-22	Fine	295.5	760.3	2.6782	2.7989	0.0731	24	1.59	1.59	1.59	2287.6	32		
18-Mar-22	Fine	297.6	756.7	2.7024	2.8263	0.1239	24	1.58	1.59	1.58	2282.2	54		
24-Mar-22	Fine	290.8	760.8	2.7543	2.8425	0.0882	24	1.60	1.59	1.59	2295.3	38		
												Min	32	
												Max	54	
												Average	39	

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					
1-Mar-22	Fine	295.2	762.7	2.7027	2.7829	0.0802	24	1.58	1.58	1.58	2274.2	35	167	260
7-Mar-22	Fine	293.0	763.0	2.7035	2.8390	0.1355	24	1.59	1.58	1.58	2277.0	60		
12-Mar-22	Fine	295.5	760.3	2.7051	2.7929	0.0878	24	1.58	1.58	1.58	2272.7	39		
18-Mar-22	Fine	297.6	756.7	2.6959	2.7664	0.0705	24	1.57	1.58	1.58	2268.4	31		
24-Mar-22	Fine	290.8	760.8	2.7405	2.8643	0.1238	24	1.59	1.58	1.58	2278.7	54		
												Min	31	
												Max	60	
												Average	44	

AMS7C - East Sea Rescue Berth – Airport Fire Contingent Third 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					
1-Mar-22	Fine	295.2	762.7	2.6981	2.7811	0.0830	24	1.50	1.49	1.50	2155.4	39	183	260
7-Mar-22	Fine	293.0	763.0	2.7138	2.7940	0.0802	24	1.51	1.49	1.50	2158.9	37		
12-Mar-22	Fine	295.5	760.3	2.6782	2.7549	0.0767	24	1.50	1.49	1.50	2153.4	36		
18-Mar-22	Fine	297.6	756.7	2.6916	2.8017	0.1101	24	1.49	1.49	1.49	2148.1	51		
24-Mar-22	Fine	290.8	760.8	2.7226	2.8098	0.0872	24	1.51	1.49	1.50	2161.1	40		
												Min	36	
												Max	51	
												Average	41	

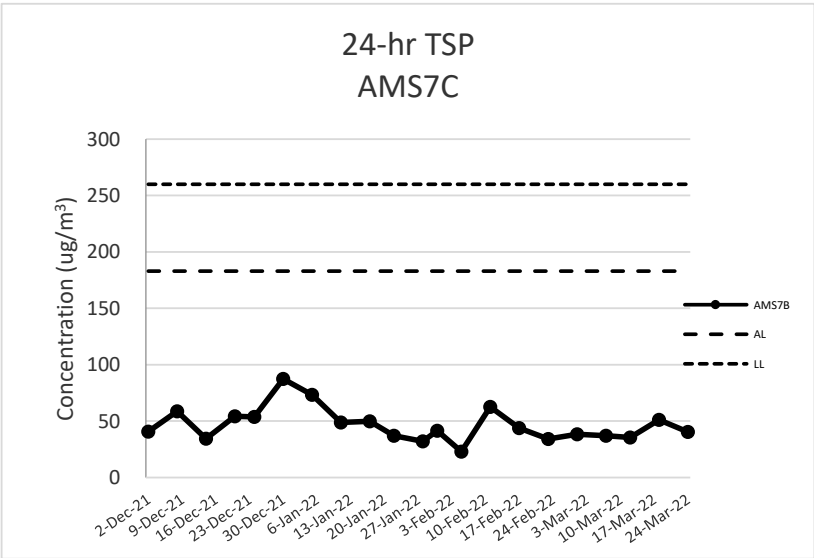
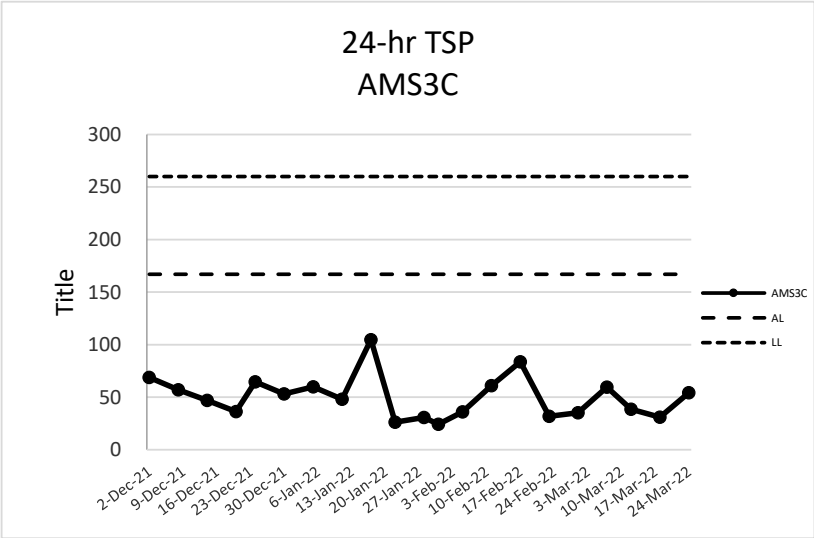
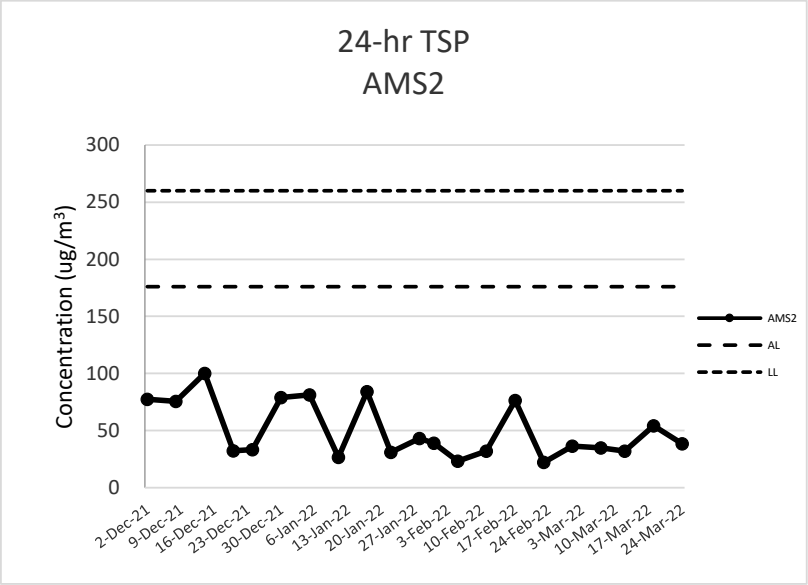
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**Noise Impact Monitoring Result for
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing Facilities – Phase 2 and Other Works**

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)
1-Mar-22	13:02	67	68	65	0.9	Fine	75
7-Mar-22	09:08	63	65	60	0.9	Fine	75
18-Mar-22	08:49	65	69	63	0.9	Fine	75
24-Mar-22	09:42	61	64	58	0.3	Fine	75
	Max	67					
	Min	61					

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*
1-Mar-22	13:34	67	71	59	0.5	Fine	70	
7-Mar-22	09:52	70	72	68	0.6	Fine	70	
18-Mar-22	09:40	64	66	61	1.1	Fine	70	
24-Mar-22	10:29	68	70	63	0.4	Fine	70	
	Max	70						
	Min	64						

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)

