

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		
5-Oct-21	Fine	13:08	47	53	53	374	500
11-Oct-21	Fine	11:51	54	48	51		
16-Oct-21	Fine	12:04	53	56	50		
22-Oct-21	Fine	11:19	48	47	47		
28-Oct-21	Fine	09:03	60	56	48		
Min			47				
Max			60				
Average			51				

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		
5-Oct-21	Fine	13:22	91	89	82	368	500
11-Oct-21	Fine	12:02	91	91	89		
16-Oct-21	Fine	12:11	91	84	77		
22-Oct-21	Fine	11:26	86	77	84		
28-Oct-21	Fine	09:24	94	86	91		
Min			77				
Max			94				
Average			87				

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		
5-Oct-21	Fine	15:10	48	53	51	370	500
11-Oct-21	Fine	11:42	49	61	59		
16-Oct-21	Fine	11:57	55	57	59		
22-Oct-21	Fine	11:12	53	59	61		
28-Oct-21	Fine	09:41	57	61	57		
Min			48				
Max			61				
Average			56				

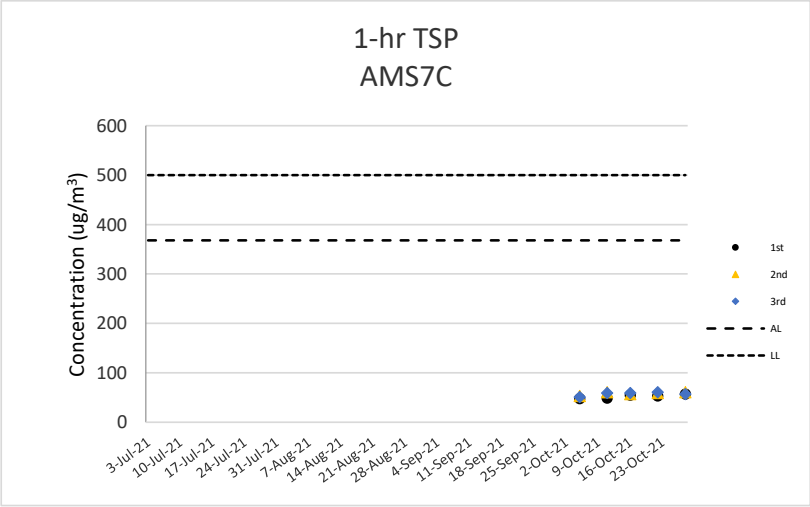
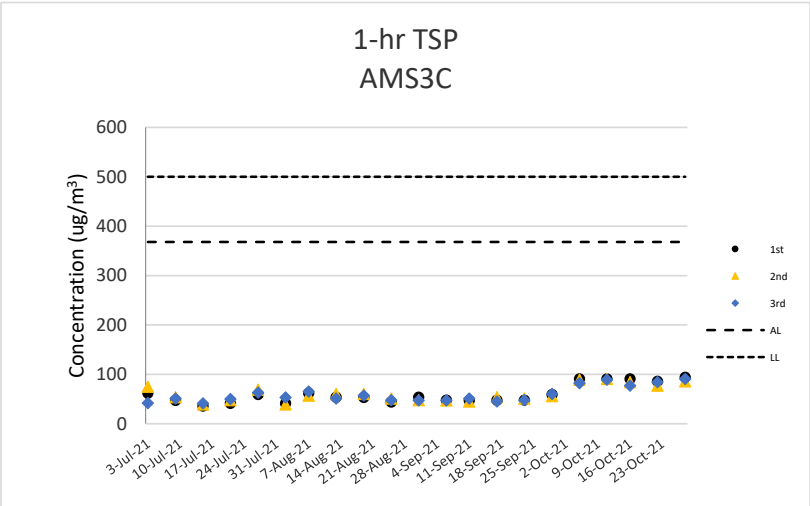
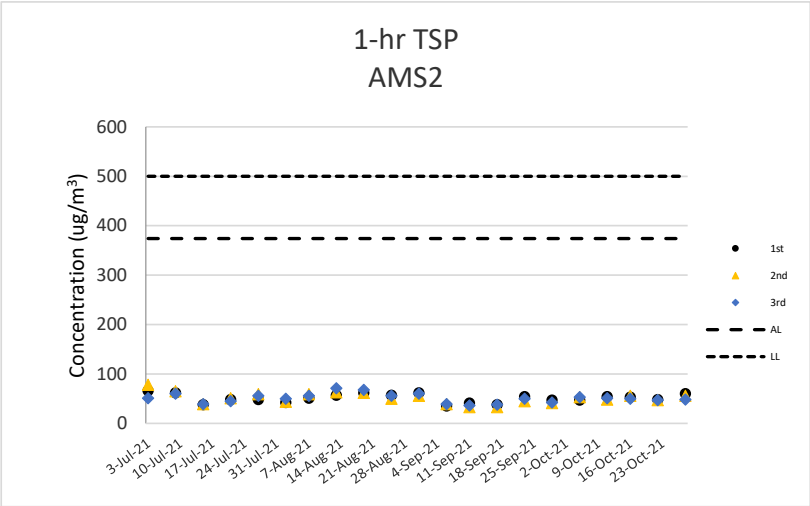
Note:

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					
5-Oct-21	Fine	302.7	756.4	2.7477	2.8594	0.1117	24	1.32	1.33	1.33	1908.5	59	176	260
11-Oct-21	Fine	301.7	754.1	2.7512	2.7932	0.0420	24	1.32	1.33	1.33	1908.6	22		
16-Oct-21	Fine	297.4	763.6	2.7522	2.7969	0.0447	24	1.34	1.33	1.34	1923.1	23		
22-Oct-21	Fine	293.7	765.1	2.6973	2.7665	0.0692	24	1.50	1.41	1.45	2095.0	33		
28-Oct-21	Fine	298.7	763.7	2.7257	2.8241	0.0984	24	1.33	1.48	1.41	2029.3	48		
												Min		
												Max	59	
												Average	37	

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					
5-Oct-21	Fine	302.7	756.4	2.7420	2.8854	0.1434	24	1.36	1.38	1.37	1973.7	73	167	260
11-Oct-21	Fine	301.7	754.1	2.7668	2.8146	0.0478	24	1.43	1.45	1.44	2077.0	23		
16-Oct-21	Fine	297.4	763.6	2.7389	2.7760	0.0371	24	1.38	1.38	1.38	1987.7	19		
22-Oct-21	Fine	293.7	765.1	2.7128	2.7718	0.0590	24	1.39	1.38	1.39	1995.3	30		
28-Oct-21	Fine	298.7	763.7	2.7280	2.8218	0.0938	24	1.52	1.52	1.52	2193.1	43		
												Min		
												Max	73	
												Average	37	

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					
5-Oct-21	Fine	302.7	756.4	2.7609	2.8489	0.0880	24	1.53	1.54	1.53	2207.2	40	183	260
11-Oct-21	Fine	301.7	754.1	2.7605	2.7938	0.0333	24	1.53	1.54	1.53	2207.3	15		
16-Oct-21	Fine	297.4	763.6	2.7495	2.7801	0.0306	24	1.68	1.68	1.68	2418.2	13		
22-Oct-21	Fine	293.7	765.1	2.7462	2.7780	0.0318	24	1.55	1.54	1.55	2227.7	14		
28-Oct-21	Fine	298.7	763.7	2.7268	2.8005	0.0737	24	1.68	1.68	1.68	2415.9	31		
												Min		
												Max	40	
												Average	22	

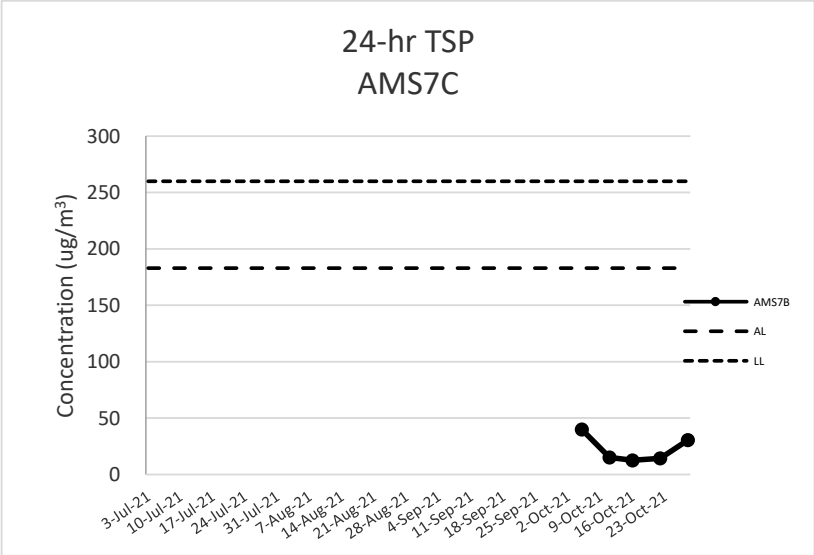
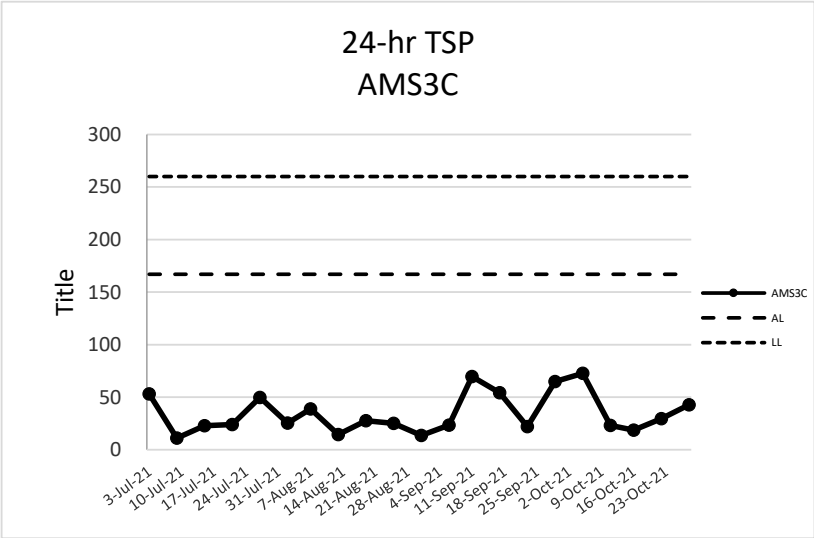
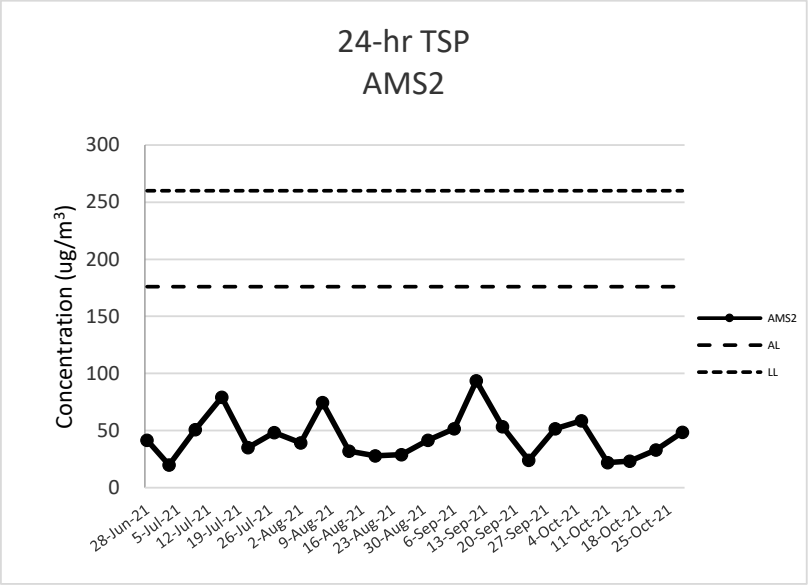
Note:

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.



**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)
5-Oct-21	14:21	64	66	61	0.9	Fine	75
16-Oct-21	13:09	59	62	53	0.5	Fine	75
22-Oct-21	12:51	58	62	53	0.7	Fine	75
28-Oct-21	10:12	61	63	58	0.9	Fine	75
	Max	64					
	Min	58					

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*
5-Oct-21	13:25	69	72	66	0.8	Fine	70	
16-Oct-21	12:37	69	74	62	0.2	Fine	70	
22-Oct-21	12:09	67	71	61	0.0	Fine	70	57.2
28-Oct-21	11:04	68	71	66	1.3	Fine	70	64.2
	Max	69						
	Min	67						

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)

