

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		
4-Jun-21	Cloudy	10:18	63	69	72	374	500
10-Jun-21	Fine	09:00	59	74	60		
16-Jun-21	Cloudy	08:56	44	54	53		
22-Jun-21	Cloudy	10:06	48	39	51		
28-Jun-21	Fine	09:25	57	57	63		
		Min	39				
		Max	74				
		Average	58				

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		
4-Jun-21	Cloudy	10:04	56	59	59	368	500
10-Jun-21	Fine	09:26	42	32	36		
16-Jun-21	Cloudy	09:30	50	57	57		
22-Jun-21	Cloudy	11:03	41	63	54		
28-Jun-21	Fine	09:40	53	56	56		
		Min	32				
		Max	63				
		Average	51				

AMS7B - 3RS Site Offices

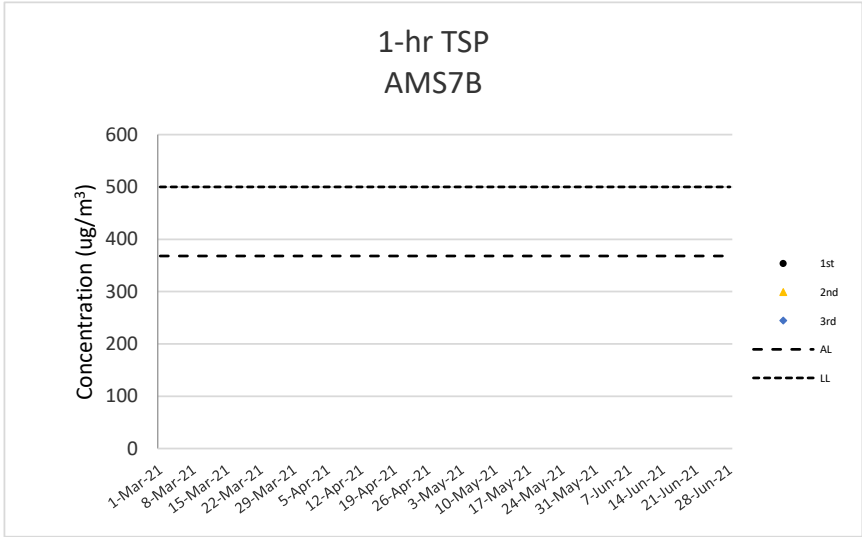
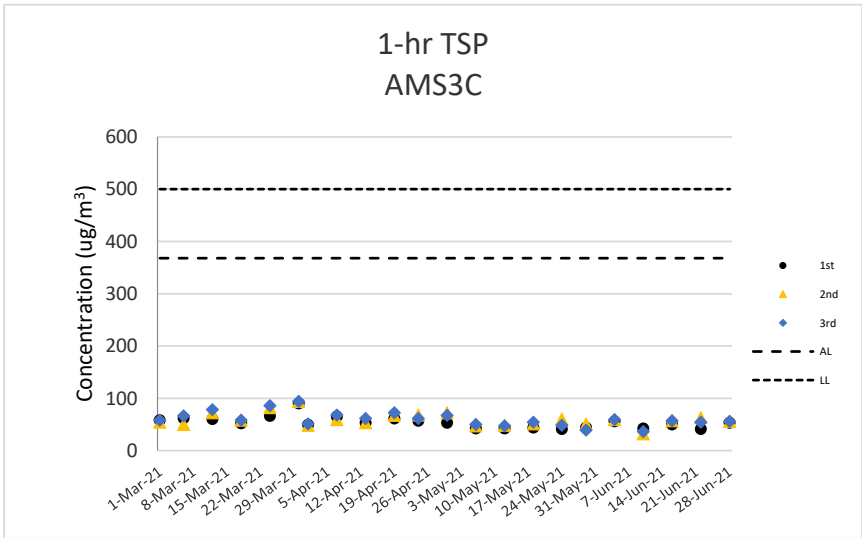
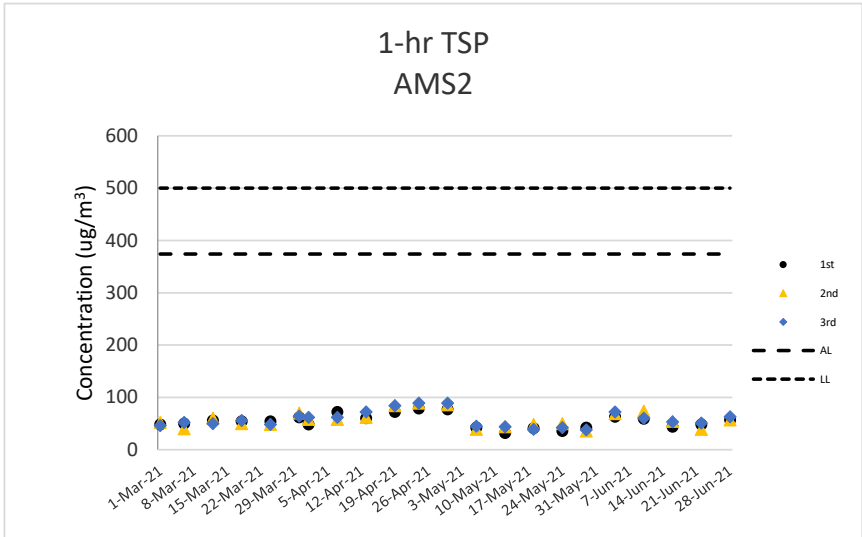
Date	Weather Condition	Start Time	1-hour TSP ($\mu\text{g}/\text{m}^3$)			Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
			1st Measurement	2nd Measurement	3rd Measurement		
						370	500
		Min					
		Max					
		Average					

Note:

Underline: Exceedance of Action Level

Underline and Bold: Exceedance of Limit Level

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



**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					
4-Jun-21	Cloudy	301.6	753.6	2.6659	2.6743	0.0084	24	0.97	0.92	0.94	1359.6	6	176	260
10-Jun-21	Fine	302.0	754.3	2.6657	2.7067	0.0410	24	0.97	0.98	0.97	1397.7	29		
16-Jun-21	Cloudy	303.8	754.8	2.6750	2.7118	0.0368	24	0.96	0.98	0.97	1395.7	26		
22-Jun-21	Cloudy	300.2	753.9	2.7071	2.7589	0.0518	24	1.07	1.03	1.05	1513.9	34		
28-Jun-21	Fine	300.9	754.0	2.6707	2.7319	0.0612	24	0.97	1.08	1.02	1475.4	41		
											Min	6		
											Max	41		
											Average	28		

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					
4-Jun-21	Cloudy	301.6	753.6	2.7170	2.7365	0.0195	24	1.09	1.10	1.10	1577.0	12	167	260
10-Jun-21	Fine	302.0	754.3	2.6880	2.7560	0.0680	24	1.15	1.16	1.16	1664.5	41		
16-Jun-21	Cloudy	303.8	754.8	2.6784	2.7228	0.0444	24	1.09	1.10	1.09	1574.5	28		
22-Jun-21	Cloudy	300.2	753.9	2.6983	2.7459	0.0476	24	1.09	1.10	1.10	1579.2	30		
28-Jun-21	Fine	300.9	754.0	2.6679	2.7311	0.0632	24	1.21	1.22	1.22	1753.8	36		
											Min	12		
											Max	41		
											Average	30		

AMS7B - 3RS Site Offices

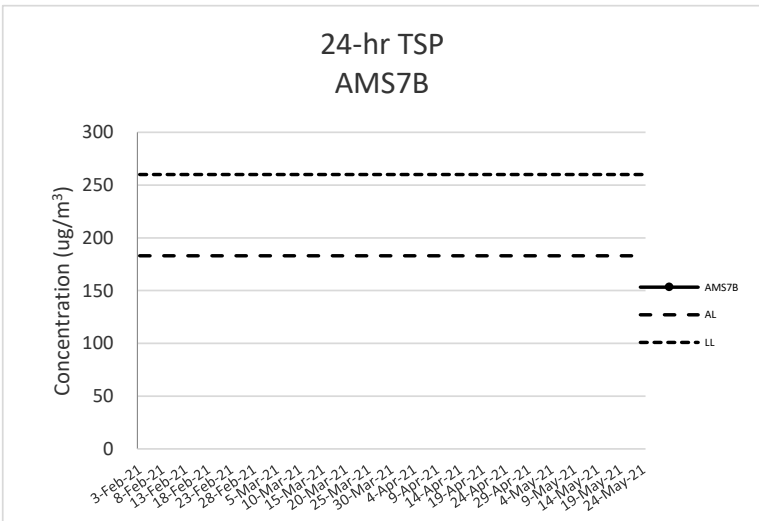
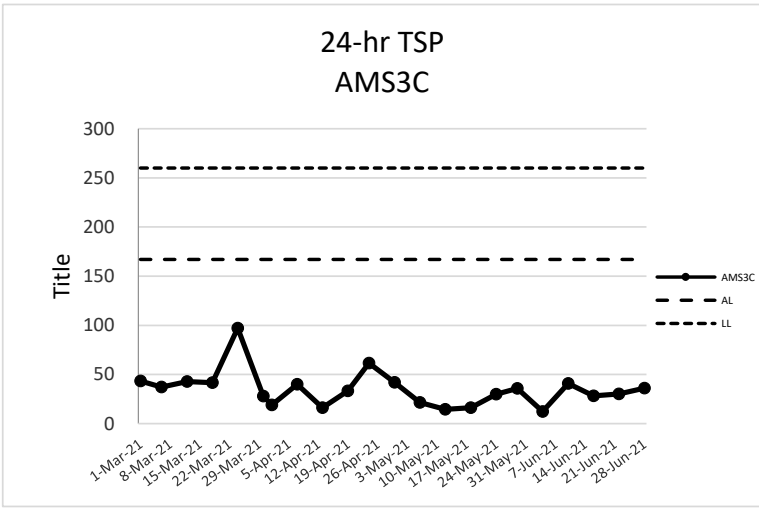
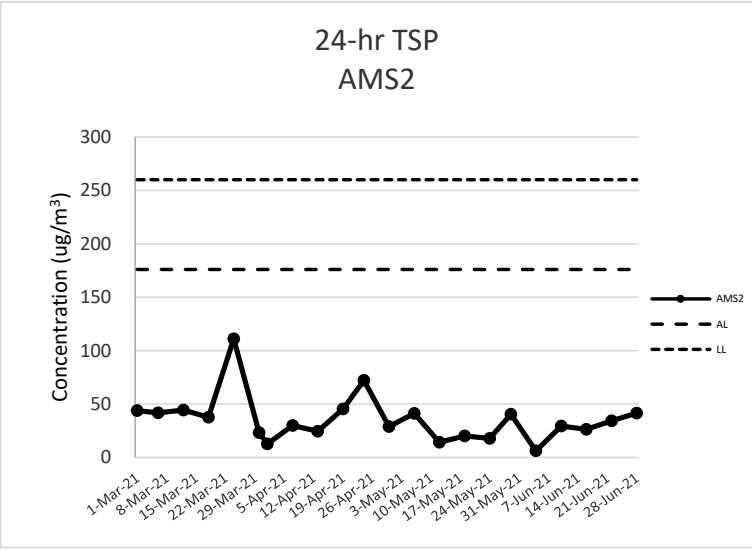
Start Date	Weather Condition	Air Temperature (K)	Atmospheric Pressure, Pa (mmHg)	Filter Weight (g)		Particulate weight (g)	Sampling Time(hrs)	Flow Rate (m ³ /min.)		Average flow (m ³ /min.)	Total volume (m ³)	Conc. (ug/m ³)	Action Level (ug/m ³)	Limit Level (ug/m ³)
				Initial	Final			Initial	Final					
													183	260
											Min			
											Max			
											Average			

Note:

Underline: Exceedance of Action Level

Underline and Bold: Exceedance of Limit Level

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



**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)
4-Jun-21	10:24	62	65	59	0.3	Cloudy	75
10-Jun-21	11:00	65	66	60	0.6	Fine	75
16-Jun-21	10:47	63	66	59	0.5	Cloudy	75
22-Jun-21	10:17	59	61	55	0.2	Cloudy	75
28-Jun-21	10:15	64	66	60	0.0	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*
4-Jun-21	11:15	68	72	66	0.4	Cloudy	65	62.5
10-Jun-21	10:30	66	70	63	0.2	Fine	65	50.0
16-Jun-21	10:03	68	69	65	0.2	Cloudy	65	61.3
22-Jun-21	11:02	67	71	64	0.5	Cloudy	65	58.7
28-Jun-21	11:04	68	71	65	0.0	Fine	70	
	Max	68						
	Min	66						

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)

