

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

AMS2 - Tung Chung Development Plot			1-hour TSP (µg/m³)			Action Level (ug/m³)	Limit Level (ug/m³)
Date	Weather Condition	Start Time	1st Measurement	2nd Measurement	3rd Measurement		
5-Feb-22	Fine	13:49	48	54	47	374	500
11-Feb-22	Fine	13:24	56	65	59		
17-Feb-22	Fine	13:57	68	63	65		
23-Feb-22	Fine	13:50	42	38	38		
		Min	38				
		Max	68				
		Average	54				

AMS3C - Ying Tung Estate Market Rooftop

			1-hour TSP (ug/m³)			Action Level (ug/m³)	Limit Level (ug/m³)
Date	Weather Condition	Start Time	1st Measurement	2nd Measurement	3rd Measurement		
5-Feb-22	Fine	13:58	84	89	84	368	500
11-Feb-22	Fine	13:06	86	96	98		
17-Feb-22	Fine	13:05	96	89	89		
23-Feb-22	Fine	14:05	58	53	65		
		Min	53				
		Max	98				
		Average	82				

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

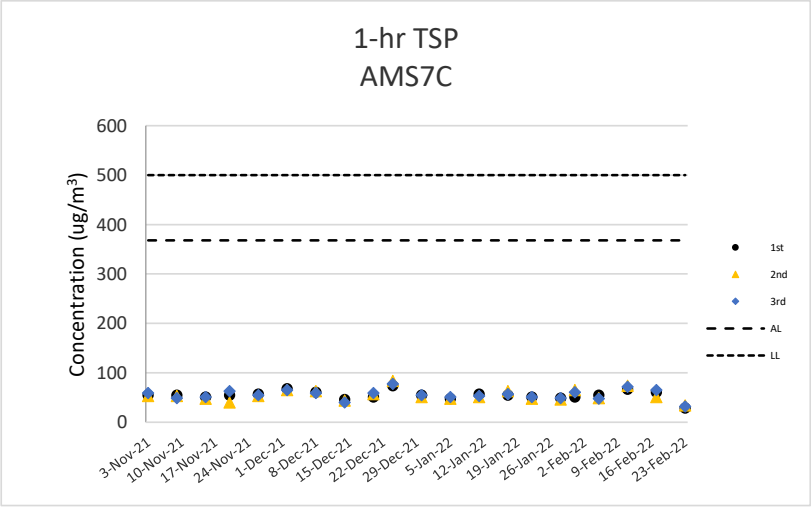
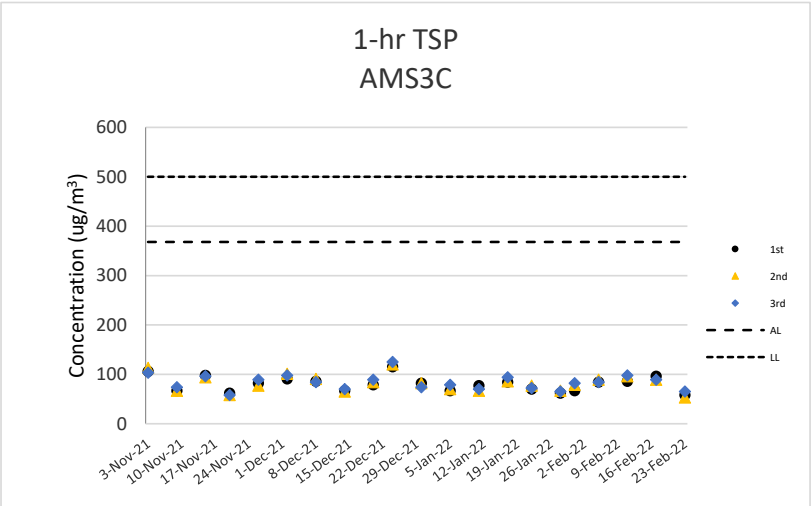
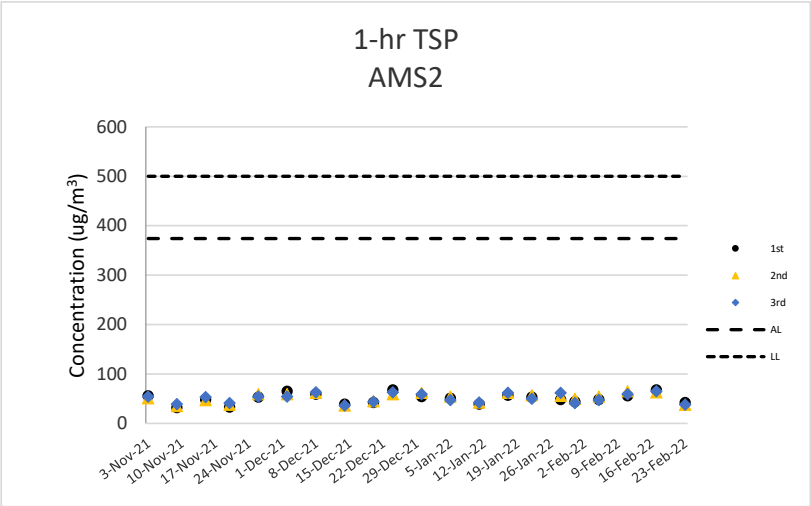
AMORC – East Sea Rescue North – Airport Fire Contingent Third Railway Site Office							
			1-hour TSP (µg/m³)				
Date	Weather Condition	Start Time	1st Measurement	2nd Measurement	3rd Measurement	Action Level (ug/m³)	Limit Level (ug/m³)
5-Feb-22	Fine	13:30	55	49	48	370	500
11-Feb-22	Fine	13:49	67	74	72		
17-Feb-22	Fine	13:28	61	51	65		
23-Feb-22	Fine	13:31	29	34	32		
		Min	29				
		Max	74				
		Average	53				

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

AMS2 - Pang Chang Development Plot															
Start Date	Weather Condition	Air Temperature (K)	Atmospheric Pressure, Pa (mmHg)	Filter Weight (g)		Particulate weight (g)	Sampling Time(hrs)	Flow Rate (m³/min.)		Average flow (m³/min.)	Total volume (m³)	Conc. (ug/m³)	Action Level (ug/m³)	Limit Level (ug/m³)	
				Initial	Final			Initial	Final						
5-Feb-22	Fine	288.4	767.6	2.7652	2.8189	0.0537	24	1.61	1.58	1.59	2295.9	23	176	260	
11-Feb-22	Fine	291.8	762.9	2.7528	2.8258	0.0730	24	1.60	1.58	1.59	2287.1	32			
17-Feb-22	Fine	288.8	761.2	2.6743	2.9312	0.1751	24	1.60	1.58	1.59	2291.1	76			
23-Feb-22	Fine	285.3	768.3	2.6846	2.7355	0.0509	24	1.62	1.58	1.60	2301.7	22			
											Min	22			
											Max	76			
											Average	38			

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 (m³/min.)		Average flow (m³/min.)	Total volume (m³)	Conc. (ug/m³)	Action Level (ug/m³)	Limit Level (ug/m³)
				Initial	Final			Initial	Final					
5-Feb-22	Fine	288.4	767.6	2.7700	2.8513	0.0813	24	1.58	1.55	1.56	2252.6	36	167	260
11-Feb-22	Fine	291.8	762.9	2.7632	2.8998	0.1366	24	1.57	1.55	1.56	2245.6	61		
17-Feb-22	Fine	288.8	761.2	2.6707	2.8587	0.1880	24	1.57	1.55	1.56	2248.8	84		
23-Feb-22	Fine	285.3	768.3	2.7002	2.7723	0.0721	24	1.58	1.55	1.57	2257.2	32		
											Min	32		
											Max	84		
											Average	53		

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

AM070 - East Sea Rescue Benth - 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 (m³/min.)		Average flow (m³/min.)	Total volume (m³)	Conc. (ug/m³)	Action Level (ug/m³)	Limit Level (ug/m³)
				Initial	Final			Initial	Final					
5-Feb-22	Fine	288.4	767.6	2.7639	2.8143	0.0504	24	1.54	1.51	1.52	2191.1	23	183	260
11-Feb-22	Fine	291.8	762.9	2.7561	2.8929	0.1368	24	1.52	1.51	1.52	2182.3	63		
17-Feb-22	Fine	288.8	761.2	2.6743	2.7704	0.0961	24	1.53	1.51	1.52	2186.3	44		
23-Feb-22	Fine	285.3	768.3	2.6816	2.7565	0.0749	24	1.54	1.51	1.53	2196.9	34		
											Min	23		
											Max	63		
											Average	41		

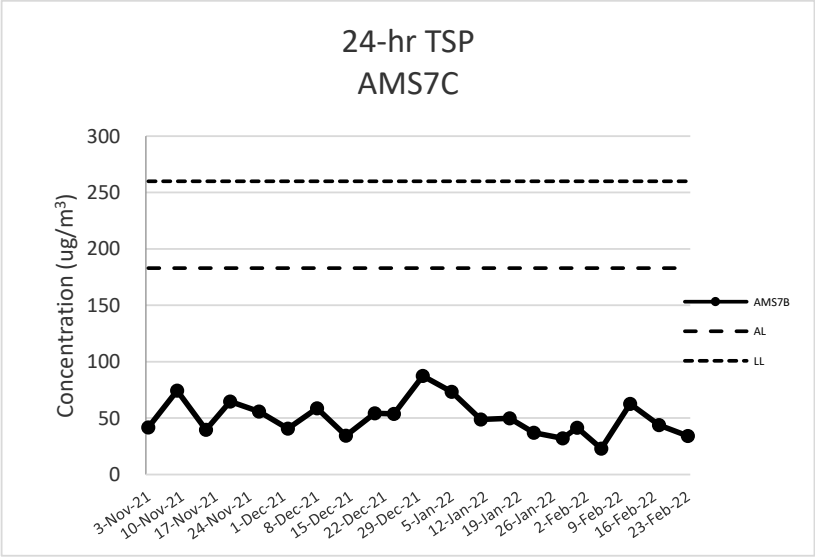
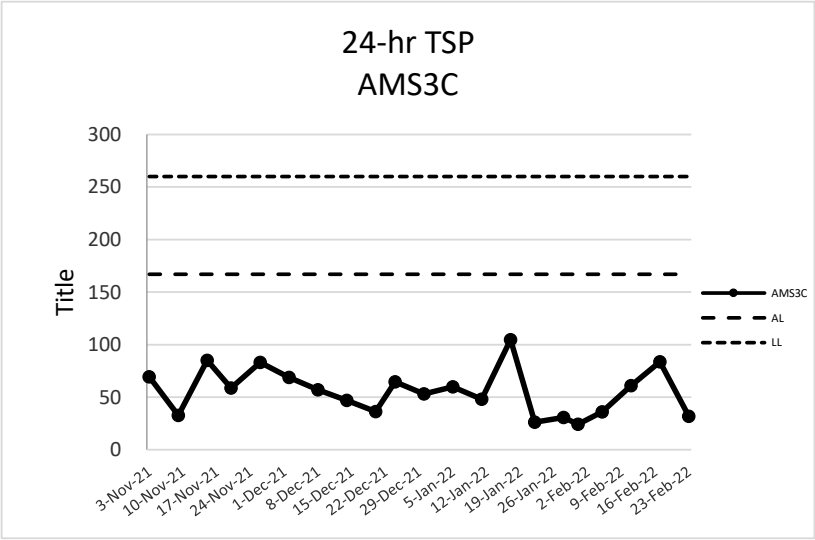
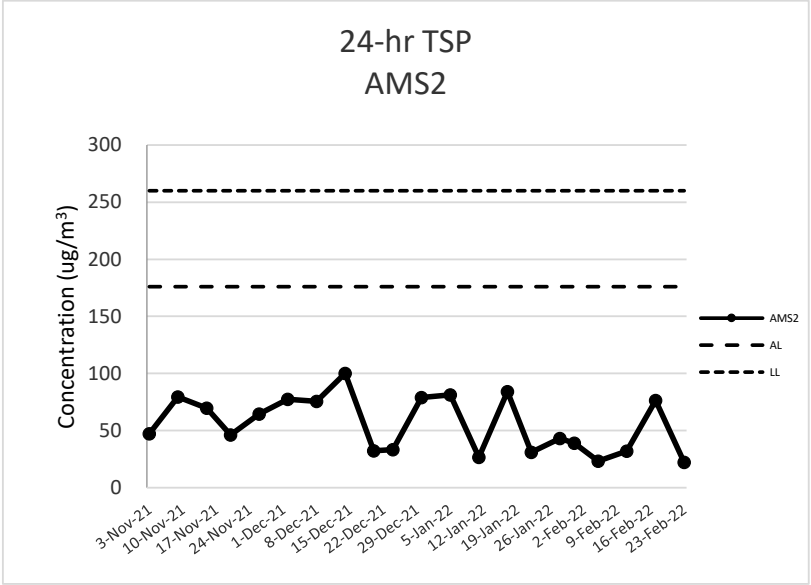
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**Noise Impact Monitoring Result for
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing Facilities – Phase 2 and Other Works**

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)
11-Feb-22	14:06	65	68	62	0.7	Fine	75
17-Feb-22	14:14	66	69	63	0.9	Fine	75
23-Feb-22	15:05	57	60	55	1.4	Fine	75
	Max	66					
	Min	57					

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*
11-Feb-22	13:03	66	67	63	1.0	Fine	70	
17-Feb-22	13:08	67	71	59	1.3	Fine	65	60.4
23-Feb-22	14:10	64	68	61	1.6	Fine	65	
	Max	67						
	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)

