

# Appendix F

## The QA/QC Procedures and Results

**The Hongkong Electric Co., Ltd.**  
**Lamma Power Station Extension**  
**TEOM Continuous Dust Monitor**  
**Data Quality Assurance Log Sheet**

Month: December      Year: 2023

Reservoir (AM1)				
Date	Frequency (Hz) (240 - 275)	Operation Mode (Mode 4)	Main Flow (l/min) (2.70 - 3.30)	Bypass Flow (l/min) (12.30 - 15.04)
4/12/2023	269.271	4	2.91	10.31
10/12/2023	269.472	4	2.89	10.31
16/12/2023	269.056	4	2.95	10.31
22/12/2023	268.413	4	3.06	10.31
28/12/2023	267.697	4	2.94	10.31

East Gate (AM2)				
Date	Frequency (Hz) (240 - 275)	Operation Mode (Mode 4)	Main Flow (l/min) (2.70 - 3.30)	Bypass Flow (l/min) (12.30 - 15.04)
4/12/2023	265.783	4	3.00	13.66
10/12/2023	264.992	4	3.00	13.66
16/12/2023	267.308	4	2.98	13.64
22/12/2023	265.819	4	2.98	13.64
28/12/2023	267.581	4	2.98	13.64

Ash Lagoon (AM3)				
Date	Frequency (Hz) (240 - 275)	Operation Mode (Mode 4)	Main Flow (l/min) (2.70 - 3.30)	Bypass Flow (l/min) (12.30 - 15.04)
4/12/2023	254.900	4	1.84	13.68
10/12/2023	254.526	4	1.75	13.35
16/12/2023	257.393	4	2.44	13.05
22/12/2023	256.992	4	1.92	12.99
28/12/2023	256.557	4	1.90	13.52

Maintenance Record			
	Reservoir	East Gate	Ash Lagoon
TEOM Filter Exchange	✓	✓	✓
Clean TSP Inlet	✓	✓	✓
Replace flow in-line filter	✓	✓	✓
Pump Repair			
Leak Check			
Flow audit			
Flow Controller Calibration			
A/C filter cleaning			

Remarks:

Prepared by: Chris Chan

Checked by: HY Chan

**The Hongkong Electric Co., Ltd.**  
**Mini Volume Air Sampler Site Visit Log Sheet**

Attendance Log

Site Name: Tai Yuen Village (AM4)

Date/Time	Staff Name
27/12/2023 / 11:00	Eric Ku

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	3393
Used Filter Paper No.	MS98
New Filter Paper No.	MS99

Type of Filter: Glass-fibre

- I. Calibration is performed by using Drycal DC-2 Flow Calibrator  
5 std. L/min set point is recommended

Before:	<u>5.03</u>
After:	<u>5.03 (No Adjustment)</u>

- II. General Services

1. Clean Rotameter:	<u>Yes</u>
2. Clean / Replace Pump Valves:	<u>No</u>
3. Clean / Replace Pump Diaphragms	<u>No</u>
4. Clean Impaction Inlet:	<u>Yes</u>
5. Replace Timer Battery Every 6 months:	<u>No</u>
6. Replace Inlet Filter	<u>Yes</u>

- III. Remarks

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Conducted by: Eric Ku Checked by: SM Hon

**The Hongkong Electric Co., Ltd.**  
**Lamma Power Station Extension**  
**Noise Monitoring Station**  
**Daily Calibration Records**

Date	Location: Ash Lagoon		Location: Ching Lam	
	Calibration Results	Deviation from Reference (dB)	Calibration Results	Deviation from Reference (dB)
01/12/2023	Passed	-0.05	Passed	-0.11
02/12/2023	Passed	-0.07	Passed	-0.11
03/12/2023	Passed	-0.07	Passed	-0.09
04/12/2023	Passed	-0.08	Passed	-0.10
05/12/2023	Passed	-0.07	Passed	-0.09
06/12/2023	Passed	-0.05	Passed	-0.09
07/12/2023	Passed	-0.07	Passed	-0.09
08/12/2023	Passed	-0.07	Passed	-0.06
09/12/2023	Passed	-0.06	Passed	-0.09
10/12/2023	Passed	-0.04	Passed	-0.06
11/12/2023	Passed	-0.06	Passed	-0.09
12/12/2023	Passed	-0.05	Passed	-0.07
13/12/2023	Passed	-0.07	Passed	-0.08
14/12/2023	Passed	-0.03	Passed	-0.08
15/12/2023	Passed	-0.04	Passed	-0.07
16/12/2023	Passed	-0.09	Passed	-0.15
17/12/2023	Passed	-0.11	Passed	-0.16
18/12/2023	Passed	-0.09	Passed	-0.12
19/12/2023	Passed	-0.10	Passed	-0.14
20/12/2023	Passed	-0.12	Passed	-0.13
21/12/2023	Passed	-0.10	Passed	-0.16
22/12/2023	Passed	-0.14	Passed	-0.13
23/12/2023	Passed	-0.12	Passed	-0.11
24/12/2023	Passed	-0.07	Passed	-0.02
25/12/2023	Passed	-0.10	Passed	-0.12
26/12/2023	Passed	-0.09	Passed	-0.07
27/12/2023	Passed	-0.07	Passed	-0.11
28/12/2023	Passed	-0.07	Passed	-0.05
29/12/2023	Passed	-0.09	Passed	-0.10
30/12/2023	Passed	-0.06	Passed	-0.10
31/12/2023	Passed	-0.05	Passed	-0.08

Remarks:

1. The B&K sound level meter at the noise monitoring station has an advanced feature of internal calibration checking (viz. Charge Injection Calibration (CIC)). CIC is a B&K patented method for in situ verification of the integrity of the entire sound measurement chain (including microphone, preamplifier and cabling).
2. The acceptance criterion of deviation from reference is  $\pm 0.5$  dB.