

# 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: April

Year: 2024

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)
2/4/2024	268.351	4	2.84	10.31
8/4/2024	267.886	4	2.72	10.31
14/4/2024	270.634	4	0.64	10.31
20/4/2024	269.959	4	0.36	10.31
26/4/2024	269.633	4	0.35	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)
2/4/2024	265.666	4	2.98	13.64
8/4/2024	265.189	4	2.98	13.64
14/4/2024	267.252	4	2.98	13.64
20/4/2024	266.716	4	2.98	13.64
26/4/2024	266.306	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)
2/4/2024	256.092	4	1.92	10.53
8/4/2024	255.850	4	1.77	10.34
14/4/2024	257.517	4	2.57	9.53
20/4/2024	257.252	4	2.15	8.65
26/4/2024	257.017	4	2.03	6.73

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
24/4/2024 / 11:00	David Tsang

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	3393
Used Filter Paper No.	MT09
New Filter Paper No.	MT10

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: 5.00  
After: 5.00 (No Adjustment)

- II. General Services

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

- III. Remarks

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Conducted by: David Tsang 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)
01/04/2024	Passed	0.00	Passed	-0.06
02/04/2024	Passed	-0.03	Passed	-0.06
03/04/2024	Passed	-0.02	Passed	-0.04
04/04/2024	Passed	-0.03	Passed	-0.06
05/04/2024	Passed	-0.02	Passed	-0.05
06/04/2024	Passed	-0.03	Passed	-0.08
07/04/2024	Passed	-0.05	Passed	-0.06
08/04/2024	Passed	-0.05	Passed	-0.06
09/04/2024	Passed	-0.07	Passed	-0.11
10/04/2024	Passed	-0.06	Passed	-0.10
11/04/2024	Passed	-0.05	Passed	-0.07
12/04/2024	Passed	-0.03	Passed	-0.05
13/04/2024	Passed	-0.03	Passed	-0.06
14/04/2024	Passed	-0.03	Passed	-0.05
15/04/2024	Passed	-0.03	Passed	-0.05
16/04/2024	Passed	-0.02	Passed	-0.05
17/04/2024	Passed	-0.03	Passed	-0.03
18/04/2024	Passed	-0.03	Passed	-0.06
19/04/2024	Passed	0.00	Passed	-0.04
20/04/2024	Passed	-0.03	Passed	-0.07
21/04/2024	Passed	-0.07	Passed	-0.08
22/04/2024	Passed	-0.05	Passed	-0.06
23/04/2024	Passed	-0.08	Passed	-0.08
24/04/2024	Passed	-0.03	Passed	-0.06
25/04/2024	Passed	-0.02	Passed	-0.06
26/04/2024	Passed	-0.04	Passed	-0.03
27/04/2024	Passed	-0.02	Passed	-0.03
28/04/2024	Passed	-0.02	Passed	-0.05
29/04/2024	Passed	-0.01	Passed	0.00
30/04/2024	Passed	0.00	Passed	-0.02

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.