

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

Month: May

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)
2/5/2024	269.896	4	0.36	10.31
8/5/2024	270.359	4	0.36	10.31
14/5/2024	270.857	4	2.87	10.31
20/5/2024	270.734	4	2.85	10.31
26/5/2024	270.675	4	2.83	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)
2/5/2024	267.863	4	3.00	13.69
8/5/2024	267.854	4	3.00	13.69
14/5/2024	267.846	4	3.00	13.69
20/5/2024	267.848	4	3.00	13.69
26/5/2024	267.838	4	3.00	13.69

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)
2/5/2024	256.779	4	1.75	10.36
8/5/2024	256.565	4	1.71	10.97
14/5/2024	257.754	4	2.16	12.20
20/5/2024	257.411	4	2.03	8.69
26/5/2024	257.261	4	2.29	6.04

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
24/5/2024 / 15:30	David Tsang

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	3393
Used Filter Paper No.	MT23
New Filter Paper No.	MT24

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:                      | <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: 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)
01/05/2024	Passed	-0.09	Passed	-0.08
02/05/2024	Passed	-0.04	Passed	-0.07
03/05/2024	Passed	-0.03	Passed	-0.09
04/05/2024	Passed	-0.09	Passed	-0.10
05/05/2024	Passed	-0.03	Passed	-0.07
06/05/2024	Passed	-0.01	Passed	-0.04
07/05/2024	Passed	0.00	Passed	-0.07
08/05/2024	Passed	0.01	Passed	-0.05
09/05/2024	Passed	0.03	Passed	-0.07
10/05/2024	Passed	0.23	Passed	-0.05
11/05/2024	Passed	0.23	Passed	-0.03
12/05/2024	Passed	-0.02	Passed	-0.04
13/05/2024	Passed	-0.01	Passed	-0.04
14/05/2024	Passed	0.26	Passed	-0.03
15/05/2024	Passed	0.34	Passed	-0.01
16/05/2024	Passed	0.36	Passed	-0.03
17/05/2024	Passed	0.36	Passed	-0.04
18/05/2024	Passed	0.37	Passed	0.01
19/05/2024	Passed	0.11	Passed	-0.02
20/05/2024	Passed	0.01	Passed	0.02
21/05/2024	Passed	0.01	Passed	-0.01
22/05/2024	Passed	0.03	Passed	0.01
23/05/2024	Passed	0.02	Passed	0.08
24/05/2024	Passed	0.01	Passed	0.10
25/05/2024	Passed	0.01	Passed	0.13
26/05/2024	Passed	0.05	Passed	0.11
27/05/2024	Passed	0.05	Passed	0.09
28/05/2024	Passed	0.05	Passed	0.08
29/05/2024	Passed	0.06	Passed	0.01
30/05/2024	Passed	0.04	Passed	0.03
31/05/2024	Passed	0.02	Passed	0.01

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.