

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

Month: October

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)
5/10/2024	260.006	4	3.00	13.66
11/10/2024	259.553	4	2.94	13.78
17/10/2024	259.071	4	2.69	13.66
23/10/2024	258.588	4	2.47	13.72
29/10/2024	259.929	4	3.02	13.74

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)
5/10/2024	261.918	4	3.25	14.81
11/10/2024	264.782	4	3.00	13.68
17/10/2024	264.302	4	3.00	13.68
23/10/2024	263.839	4	3.00	13.68
29/10/2024	263.163	4	3.00	13.68

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)
5/10/2024	257.096	4	1.73	13.65
11/10/2024	256.855	4	1.61	13.52
17/10/2024	256.645	4	1.61	13.65
23/10/2024	256.418	4	1.57	13.62
29/10/2024	256.994	4	2.07	12.97

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
25/10/2024 / 10:30	Alex Ng

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	3393
Used Filter Paper No.	MT49
New Filter Paper No.	MT50

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: Yes
 6. Replace Inlet Filter: Yes

III. Remarks

Conducted by: Alex Ng 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)
01/10/2024	Passed	0.35	Passed	0.01
02/10/2024	Passed	0.39	Passed	-0.01
03/10/2024	Passed	0.40	Passed	-0.03
04/10/2024	Passed	0.41	Passed	0.01
05/10/2024	Passed	0.41	Passed	0.00
06/10/2024	Passed	0.31	Passed	0.04
07/10/2024	Passed	0.19	Passed	0.03
08/10/2024	Passed	0.30	Passed	0.00
09/10/2024	Passed	0.35	Passed	0.04
10/10/2024	Passed	0.32	Passed	0.03
11/10/2024	Passed	0.19	Passed	0.02
12/10/2024	Passed	0.23	Passed	0.01
13/10/2024	Passed	0.14	Passed	0.03
14/10/2024	Passed	0.04	Passed	0.05
15/10/2024	Passed	0.05	Passed	0.01
16/10/2024	Passed	0.05	Passed	0.02
17/10/2024	Passed	0.04	Passed	0.00
18/10/2024	Passed	0.04	Passed	0.04
19/10/2024	Passed	0.05	Passed	-0.01
20/10/2024	Passed	0.05	Passed	0.03
21/10/2024	Passed	0.04	Passed	-0.01
22/10/2024	Passed	0.24	Passed	0.05
23/10/2024	Passed	0.28	Passed	0.02
24/10/2024	Passed	0.31	Passed	0.03
25/10/2024	Passed	0.32	Passed	0.03
26/10/2024	Passed	0.13	Passed	-0.01
27/10/2024	Passed	0.06	Passed	0.03
28/10/2024	Passed	0.12	Passed	0.05
29/10/2024	Passed	0.11	Passed	0.04
30/10/2024	Passed	0.08	Passed	0.02
31/10/2024	Passed	0.24	Passed	0.06

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 ± 0.5 dB.