

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

Month: January Year: 2021

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)
1/1/2021	265.644	4	3.09	12.90
7/1/2021	268.954	4	3.04	12.95
13/1/2021	268.161	4	3.04	12.81
19/1/2021	267.123	4	3.05	12.87
25/1/2021	266.459	4	2.99	13.02
31/1/2021	265.788	4	3.02	13.05

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)
1/1/2021	248.162	4	2.84	14.32
7/1/2021	247.515	4	2.83	14.23
13/1/2021	251.093	4	3.10	14.12
19/1/2021	250.013	4	2.80	14.16
25/1/2021	249.289	4	2.75	13.92
31/1/2021	250.964	4	3.08	14.02

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)
1/1/2021	254.043	4	3.00	13.68
7/1/2021	253.479	4	3.00	13.68
13/1/2021	252.872	4	2.70	13.68
19/1/2021	252.118	4	2.40	13.68
25/1/2021	256.018	4	3.00	13.04
31/1/2021	255.490	4	3.00	12.27

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
14/01/2021 / 10:45	WM Tam

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	5580
Used filter paper no.	MR17
New filter paper no.	MR18

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: 5.06  
After: 5.02

- 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

Remarks

N/A

Conducted by: WM Tam

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)
01/01/2021	Passed	-0.15	Passed	0.08
02/01/2021	Passed	-0.12	Passed	0.07
03/01/2021	Passed	-0.11	Passed	0.08
04/01/2021	Passed	-0.13	Passed	0.08
05/01/2021	Passed	-0.12	Passed	0.07
06/01/2021	Passed	-0.16	Passed	0.04
07/01/2021	Passed	-0.19	Passed	0.02
08/01/2021	Passed	-0.17	Passed	0.04
09/01/2021	Passed	-0.14	Passed	0.06
10/01/2021	Passed	-0.19	Passed	0.03
11/01/2021	Passed	-0.16	Passed	0.07
12/01/2021	Passed	-0.15	Passed	0.04
13/01/2021	Passed	-0.14	Passed	0.06
14/01/2021	Passed	-0.12	Passed	0.07
15/01/2021	Passed	-0.12	Passed	0.08
16/01/2021	Passed	-0.13	Passed	0.06
17/01/2021	Passed	-0.15	Passed	0.07
18/01/2021	Passed	-0.13	Passed	0.09
19/01/2021	Passed	-0.10	Passed	0.09
20/01/2021	Passed	-0.11	Passed	0.10
21/01/2021	Passed	-0.09	Passed	0.10
22/01/2021	Passed	-0.10	Passed	0.07
23/01/2021	Passed	-0.10	Passed	0.08
24/01/2021	Passed	-0.11	Passed	0.10
25/01/2021	Passed	-0.12	Passed	0.09
26/01/2021	Passed	-0.10	Passed	0.07
27/01/2021	Passed	-0.09	Passed	0.06
28/01/2021	Passed	-0.13	Passed	0.09
29/01/2021	Passed	-0.12	Passed	0.07
30/01/2021	Passed	-0.11	Passed	0.08
31/01/2021	Passed	-0.09	Passed	0.11

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.