

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

Month: December 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)
2/12/2021	267.487	4	3.04	13.25
8/12/2021	266.787	4	3.04	13.17
14/12/2021	266.071	4	3.00	13.14
20/12/2021	265.500	4	3.09	13.07
26/12/2021	265.060	4	3.11	13.21

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)
2/12/2021	250.925	4	2.87	14.03
8/12/2021	249.798	4	3.09	14.06
14/12/2021	249.098	4	2.71	13.80
20/12/2021	248.422	4	2.78	14.14
26/12/2021	247.959	4	2.72	14.38

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)
2/12/2021	255.571	4	3.00	13.67
8/12/2021	255.038	4	3.00	13.68
14/12/2021	254.462	4	2.60	13.68
20/12/2021	254.364	4	3.00	13.68
26/12/2021	253.903	4	3.00	13.68

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
15/12/2021 / 10:00	WM TAM

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	5580
Used filter paper no.	MR74
New filter paper no.	MR75

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: 5.066
After: 5.019

- 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

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)
01/12/2021	Passed	-0.12	Passed	-0.15
02/12/2021	Passed	-0.12	Passed	-0.15
03/12/2021	Passed	-0.15	Passed	-0.13
04/12/2021	Passed	-0.12	Passed	-0.15
05/12/2021	Passed	-0.13	Passed	-0.11
06/12/2021	Passed	-0.13	Passed	-0.13
07/12/2021	Passed	-0.11	Passed	-0.14
08/12/2021	Passed	-0.12	Passed	-0.14
09/12/2021	Passed	-0.13	Passed	-0.10
10/12/2021	Passed	-0.12	Passed	-0.14
11/12/2021	Passed	-0.12	Passed	-0.13
12/12/2021	Passed	-0.13	Passed	-0.16
13/12/2021	Passed	-0.12	Passed	-0.12
14/12/2021	Passed	-0.11	Passed	-0.13
15/12/2021	Passed	-0.11	Passed	-0.12
16/12/2021	Passed	-0.12	Passed	-0.11
17/12/2021	Passed	-0.15	Passed	-0.15
18/12/2021	Passed	-0.13	Passed	-0.15
19/12/2021	Passed	-0.15	Passed	-0.20
20/12/2021	Passed	-0.16	Passed	-0.17
21/12/2021	Passed	-0.12	Passed	-0.14
22/12/2021	Passed	-0.13	Passed	-0.11
23/12/2021	Passed	-0.12	Passed	-0.13
24/12/2021	Passed	-0.14	Passed	-0.14
25/12/2021	Passed	-0.18	Passed	-0.21
26/12/2021	Passed	-0.19	Passed	-0.20
27/12/2021	Passed	-0.16	Passed	-0.17
28/12/2021	Passed	-0.13	Passed	-0.17
29/12/2021	Passed	-0.13	Passed	-0.16
30/12/2021	Passed	-0.14	Passed	-0.16
31/12/2021	Passed	-0.15	Passed	-0.17

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.