

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

Month: April

Year: 2023

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)
2/4/2023	268.964	4	2.93	10.31
8/4/2023	268.565	4	2.97	10.31
14/4/2023	270.912	4	2.87	10.31
20/4/2023	270.162	4	2.88	10.31
26/4/2023	269.598	4	2.90	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)
2/4/2023	267.148	4	3.00	13.66
8/4/2023	266.764	4	3.00	13.66
14/4/2023	266.048	4	3.00	13.66
20/4/2023	267.886	4	3.00	13.66
26/4/2023	267.320	4	2.99	13.66

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)
2/4/2023	257.256	4	2.18	13.68
8/4/2023	256.974	4	2.02	13.68
14/4/2023	258.122	4	3.00	13.68
20/4/2023	257.506	4	2.47	13.68
26/4/2023	257.058	4	2.31	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
18/04/2023 / 10:45	WM Tam

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	5580
Used filter paper no.	MS55
New filter paper no.	MS56

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: 4.982
After: 5.037 (Adjusted)

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)
01/04/2023	Passed	-0.03	Passed	-0.12
02/04/2023	Passed	0.00	Passed	-0.07
03/04/2023	Passed	-0.01	Passed	-0.08
04/04/2023	Passed	-0.01	Passed	-0.06
05/04/2023	Passed	-0.01	Passed	-0.06
06/04/2023	*	*	Passed	-0.11
07/04/2023	Passed	-0.04	Passed	-0.11
08/04/2023	Passed	-0.04	Passed	-0.11
09/04/2023	Passed	-0.04	Passed	-0.11
10/04/2023	Passed	-0.02	Passed	-0.07
11/04/2023	Passed	-0.02	Passed	-0.07
12/04/2023	Passed	-0.02	Passed	-0.08
13/04/2023	Passed	-0.02	Passed	-0.05
14/04/2023	Passed	0.01	Passed	-0.03
15/04/2023	Passed	0.01	Passed	-0.07
16/04/2023	Passed	0.01	Passed	-0.03
17/04/2023	Passed	0.02	Passed	-0.05
18/04/2023	Passed	-0.01	Passed	-0.07
19/04/2023	Passed	-0.01	Passed	-0.09
20/04/2023	Passed	-0.01	Passed	-0.08
21/04/2023	Passed	0.02	Passed	-0.10
22/04/2023	Passed	0.00	Passed	-0.07
23/04/2023	Passed	-0.02	Passed	-0.09
24/04/2023	Passed	-0.03	Passed	-0.11
25/04/2023	Passed	-0.05	Passed	-0.11
26/04/2023	Passed	-0.01	Passed	-0.08
27/04/2023	Passed	-0.02	Passed	-0.08
28/04/2023	Passed	0.00	Passed	-0.06
29/04/2023	Passed	0.00	Passed	-0.08
30/04/2023	Passed	0.00	Passed	-0.08

Remarks:

1. * - Due to error in downloading noise data, the CIC calibration record was lost.
2. 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).
3. The acceptance criterion of deviation from reference is ± 0.5 dB.