

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

Month: December Year: 2020

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)
2/12/2020	269.359	4	2.99	13.61
8/12/2020	268.396	4	3.02	13.44
14/12/2020	267.752	4	3.00	13.46
20/12/2020	267.027	4	3.06	13.39
26/12/2020	266.302	4	3.01	13.39

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)
2/12/2020	249.760	4	3.06	13.84
8/12/2020	248.543	4	2.78	13.92
14/12/2020	250.768	4	3.06	13.94
20/12/2020	249.730	4	3.06	14.14
26/12/2020	248.936	4	2.92	13.92

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)
2/12/2020	255.454	4	3.00	13.67
8/12/2020	254.718	4	3.00	13.67
14/12/2020	255.680	4	3.00	13.68
20/12/2020	255.174	4	3.00	13.68
26/12/2020	254.622	4	3.00	13.67

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
15/12/2020 / 14:15	WM Tam

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	5580
Used filter paper no.	MR12
New filter paper no.	MR13

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: 5.035
After: 5.035

- 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)
01/12/2020	Passed	-0.11	Passed	0.08
02/12/2020	Passed	-0.14	Passed	0.06
03/12/2020	Passed	-0.12	Passed	0.05
04/12/2020	Passed	-0.11	Passed	0.07
05/12/2020	Passed	-0.11	Passed	0.08
06/12/2020	Passed	-0.08	Passed	0.12
07/12/2020	Passed	-0.10	Passed	0.08
08/12/2020	Passed	-0.10	Passed	0.11
09/12/2020	Passed	-0.10	Passed	0.10
10/12/2020	Passed	-0.09	Passed	0.09
11/12/2020	Passed	-0.10	Passed	0.09
12/12/2020	Passed	-0.08	Passed	0.08
13/12/2020	Passed	-0.13	Passed	0.08
14/12/2020	Passed	-0.14	Passed	0.07
15/12/2020	Passed	-0.16	Passed	0.04
16/12/2020	Passed	-0.14	Passed	0.06
17/12/2020	Passed	-0.13	Passed	0.08
18/12/2020	Passed	-0.14	Passed	0.07
19/12/2020	Passed	-0.13	Passed	0.07
20/12/2020	Passed	-0.12	Passed	0.08
21/12/2020	Passed	-0.12	Passed	0.10
22/12/2020	Passed	-0.12	Passed	0.05
23/12/2020	Passed	-0.10	Passed	0.08
24/12/2020	Passed	-0.10	Passed	0.13
25/12/2020	Passed	-0.11	Passed	0.08
26/12/2020	Passed	-0.10	Passed	0.10
27/12/2020	Passed	-0.06	Passed	0.12
28/12/2020	Passed	-0.09	Passed	0.09
29/12/2020	Passed	-0.16	Passed	0.05
30/12/2020	Passed	-0.17	Passed	0.06
31/12/2020	Passed	-0.17	Passed	0.05

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.