

Appendix F

The QA/QC Procedures and Results

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

Month: June Year: 2019

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)
05/06/2019	267.8	4	2.94	13.4
11/06/2019	267.4	4	2.93	13.35
17/06/2019	267.1	4	2.94	13.4
23/06/2019	266.8	4	2.91	13.4
29/06/2019	266.5	4	2.94	13.5

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)
05/06/2019	257.9	4	2.98	13.6
11/06/2019	258.7	1	2.96	0.46
17/06/2019	258.5	4	2.97	13.5
23/06/2019	259.6	4	2.93	13.4
29/06/2019	258.9	4	2.94	13.5

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)
05/06/2019	258.5	4	3	13.67
11/06/2019	258.3	4	3	13.67
17/06/2019	257.9	4	3	13.67
23/06/2019	257.8	4	3	13.67
29/06/2019	257.5	4	3	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: W.M. Tam

Checked by: W.Y. 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
13/06/2019 / 10:30	WM Tam / HM Chan

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	5580
Used filter paper no.	MQ19
New filter paper no.	MQ20

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: 4.975
After: 5.013

- 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 / HM Chan

Checked by: SM Hon

The Hongkong Electric Co., Ltd.
Lamma Power Station Extension
Noise Monitoring Stations
Daily Calibration Records

Date	Location: Ash Lagoon		Location: Ching Lam	
	Calibration Results	Deviation from Reference (dB)	Calibration Results	Deviation from Reference (dB)
01/06/2019	Passed	0.01	Passed	0.02
02/06/2019	Passed	0.00	Passed	0.00
03/06/2019	Passed	0.02	Passed	0.02
04/06/2019	Passed	0.02	Passed	0.03
05/06/2019	Passed	0.02	Passed	-0.01
06/06/2019	Passed	0.06	Passed	0.03
07/06/2019	Passed	0.03	Passed	0.04
08/06/2019	Passed	0.02	--	--
09/06/2019	Passed	0.00	Passed	0.03
10/06/2019	Passed	0.00	Passed	-0.02
11/06/2019	Passed	-0.02	Passed	0.03
12/06/2019	Passed	0.01	Passed	0.03
13/06/2019	Passed	0.02	Passed	-0.01
14/06/2019	Passed	0.05	Passed	0.01
15/06/2019	Passed	0.02	Passed	0.00
16/06/2019	Passed	0.07	Passed	0.02
17/06/2019	Passed	0.04	Passed	0.00
18/06/2019	Passed	0.02	Passed	0.01
19/06/2019	Passed	0.03	Passed	0.00
20/06/2019	Passed	0.04	Passed	0.02
21/06/2019	Passed	0.03	Passed	0.02
22/06/2019	Passed	0.02	Passed	0.03
23/06/2019	Passed	0.05	Passed	0.02
24/06/2019	Passed	0.02	Passed	-0.03
25/06/2019	Passed	0.03	Passed	0.00
26/06/2019	Passed	0.04	Passed	0.01
27/06/2019	Passed	0.05	Passed	0.03
28/06/2019	Passed	0.06	Passed	0.06
29/06/2019	Passed	0.04	Passed	0.05
30/06/2019	Passed	0.02	Passed	0.02

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. -- denotes that the calibration did not perform properly.
3. The acceptance criterion of deviation from reference is ± 0.5 dB.