

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: August 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)
04/08/2019	271.340	4	2.89	13.15
10/08/2019	270.909	4	2.84	12.96
16/08/2019	269.685	4	2.89	13.18
22/08/2019	269.375	4	2.86	13.04
28/08/2019	268.889	4	2.86	13.00

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)
04/08/2019	259.051	4	2.94	13.37
10/08/2019	258.411	4	2.89	13.14
16/08/2019	257.814	4	2.93	13.35
22/08/2019	257.412	4	2.90	13.20
28/08/2019	256.848	4	2.90	13.22

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)
04/08/2019	256.335	4	3.00	13.67
10/08/2019	256.175	4	3.00	13.67
16/08/2019	255.795	4	3.00	13.67
22/08/2019	258.846	4	3.00	13.67
28/08/2019	258.365	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
13/08/2019 / 13:00	WM Tam / SM Hon

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	5580
Used filter paper no.	MQ28
New filter paper no.	MQ30

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: 5.026
After: 5.026

- 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

The above faulty MiniVol Air Sampler of S/N 5580 was replaced by the one of S/N 3393 before flow audit.

Conducted by: WM Tam / SM Hon

Checked by: SM Hon

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

Date	Location: Ash Lagoon	
	Calibration Results	Deviation from Reference (dB)
01/08/2019	Passed	-0.04
02/08/2019	Passed	-0.05
03/08/2019	Passed	-0.04
04/08/2019	Passed	-0.02
05/08/2019	Passed	0.07
06/08/2019	Passed	0.06
07/08/2019	Passed	0.03
08/08/2019	Passed	0.04
09/08/2019	Passed	0.04
10/08/2019	Passed	-0.03
11/08/2019	Passed	-0.04
12/08/2019	Passed	-0.03
13/08/2019	Passed	-0.05
14/08/2019	Passed	-0.03
15/08/2019	Passed	0.03
16/08/2019	Passed	0.01
17/08/2019	Passed	-0.03
18/08/2019	Passed	-0.08
19/08/2019	Passed	0.01
20/08/2019	Passed	0.01
21/08/2019	Passed	0.02
22/08/2019	Passed	0.02
23/08/2019	Passed	-0.02
24/08/2019	Passed	0.01
25/08/2019	Passed	-0.16
26/08/2019	Passed	-0.08
27/08/2019	Passed	-0.01
28/08/2019	Passed	0.04
29/08/2019	Passed	-0.05
30/08/2019	Passed	-0.02
31/08/2019	Passed	0.00

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.

The Hongkong Electric Co., Ltd.
Lamma Power Station Extension
Noise Monitoring Station
Site Visit Log Sheet

Location: Ching Lam

Date/Time	Staff Attended
06/08/2019 / 10:00	WM Tam / Eric Ku

Equipment	Serial No.
B&K 2250	3010138

1. Calibration

Acoustic calibrator: B&K 4231 (S/N: 2343406)

Noise level measured in calibration: 93.7 (94 ±1.0 dBA)

2. Weather Conditions

a. Sunny

b. Calm

3. Beacon

Function normally: Yes

4. Remark/Observation

N/A

Prepared by: WM Tam

Checked by: TL Chu