

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: November Year: 2018

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)
01/11/2018	270.157	4	2.89	13.15
07/11/2018	269.614	4	2.90	13.22
13/11/2018	268.912	4	2.90	13.22
19/11/2018	268.438	4	2.91	13.26
25/11/2018	267.851	4	2.98	13.57

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)
01/11/2018	259.058	4	2.72	13.45
07/11/2018	259.859	4	2.98	13.58
13/11/2018	259.175	4	2.75	13.56
19/11/2018	258.817	4	2.72	13.64
25/11/2018	259.624	4	2.93	13.94

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)
01/11/2018	257.588	4	3.00	13.67
07/11/2018	257.119	4	3.00	13.677
13/11/2018	256.469	4	3.00	13.67
19/11/2018	256.065	4	3.00	13.67
25/11/2018	258.615	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	X	X	X
Leak Check	X	X	X
Flow audit	✓	✓	✓
Flow Controller Calibration	X	X	X
A/C filter cleaning	✓	✓	✓

Remarks:

N/A

Prepared by: H.Y. Chan

Checked by: HY Ho

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
14/11/2018 / 14:00	WM Tam / HT Pang

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	5580
Used filter paper no.	MP84
New filter paper no.	MP85

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: 4.993
After: 5.063

- 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

Conducted by: WM Tam / HT Pang

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)
01/11/2018	Passed	-0.03	Passed	-0.02
02/11/2018	Passed	-0.03	Passed	-0.05
03/11/2018	Passed	-0.03	Passed	-0.01
04/11/2018	Passed	-0.04	Passed	-0.01
05/11/2018	Passed	-0.02	Passed	0.00
06/11/2018	Passed	-0.02	Passed	-0.02
07/11/2018	Passed	-0.02	Passed	0.00
08/11/2018	Passed	-0.01	Passed	-0.02
09/11/2018	Passed	0.00	Passed	-0.02
10/11/2018	Passed	-0.03	Passed	-0.02
11/11/2018	Passed	-0.03	Passed	-0.01
12/11/2018	Passed	-0.01	Passed	-0.02
13/11/2018	Passed	-0.01	Passed	-0.03
14/11/2018	Passed	0.05	Passed	-0.03
15/11/2018	Passed	0.02	Passed	0.00
16/11/2018	Passed	-0.03	Passed	-0.02
17/11/2018	Passed	-0.01	Passed	-0.02
18/11/2018	Passed	-0.02	Passed	-0.02
19/11/2018	Passed	-0.03	Passed	-0.02
20/11/2018	Passed	-0.02	Passed	-0.02
21/11/2018	Passed	-0.04	Passed	-0.02
22/11/2018	Passed	-0.04	Passed	-0.04
23/11/2018	Passed	-0.02	Passed	-0.05
24/11/2018	Passed	-0.04	Passed	-0.04
25/11/2018	Passed	-0.10	Passed	-0.09
26/11/2018	Passed	-0.06	Passed	-0.04
27/11/2018	Passed	-0.06	Passed	-0.08
28/11/2018	Passed	-0.04	Passed	-0.02
29/11/2018	Passed	-0.04	Passed	-0.05
30/11/2018	Passed	-0.03	Passed	-0.03

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.