

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: 12 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)
01/12/2018	267.443	4	2.92	13.32
07/12/2018	266.924	4	2.95	13.45
13/12/2018	266.228	4	3.01	13.73
19/12/2018	265.457	4	2.83	13.41
25/12/2018	272.472	4	3.09	14.07
31/12/2018	271.786	4	3.18	14.49

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)
01/12/2018	259.711 *(4/12)	4 *(4/12)	2.96 *(4/12)	13.50 *(4/12)
07/12/2018	259.498	4	3.02	13.83
13/12/2018	259.586	4	3.10	14.13
19/12/2018	258.722	4	2.72	13.79
25/12/2018	259.536	4	2.76	14.00
31/12/2018	271.786	4	2.81	14.09

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)
01/12/2018	258.224	4	3.00	13.67
07/12/2018	257.732	4	3.00	13.67
13/12/2018	257.204	4	3.00	13.67
19/12/2018	256.449	4	3.00	13.66
25/12/2018	255.974	4	3.00	13.67
31/12/2018	258.682	4	3.00	13.67

Maintenance Record			
	Reservoir	East Gate	Ash Lagoon
TEOM Filter Exchange	✓	✓	✓
Clean TSP Inlet	✓	✓	✓
Replace flow in-line filter	x	x	x
Pump Repair	x	x	x
Leak Check	✓	✓	✓
Flow audit	✓	✓	✓
Flow Controller Calibration	✓	✓	✓
A/C filter cleaning	✓	✓	✓

Remarks:

* TSP monitoring at AM2 (East Gate) was suspended on 01/12/2018 due to the maintenance of the TEOM. Make-up 24-hr TSP sampling at AM2 was conducted on 04/12/2018.

Prepared by: HY 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
14/12/2018 / 13:30	WM Tam / SM Hon

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	5580
Used filter paper no.	MP89
New filter paper no.	MP90

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: 5.074
After: 5.015

- 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 / SM Hon

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)
01/12/2018	Passed	-0.04	Passed	-0.01
02/12/2018	Passed	-0.03	Passed	-0.01
03/12/2018	Passed	-0.02	Passed	0.00
04/12/2018	Passed	-0.01	Passed	0.00
05/12/2018	Passed	-0.09	Passed	-0.03
06/12/2018	Passed	-0.03	Passed	-0.04
07/12/2018	Passed	-0.08	Passed	-0.05
08/12/2018	Passed	-0.09	Passed	-0.06
09/12/2018	Passed	-0.10	Passed	-0.06
10/12/2018	Passed	-0.09	Passed	-0.08
11/12/2018	Passed	-0.09	Passed	-0.06
12/12/2018	Passed	-0.11	Passed	-0.08
13/12/2018	Passed	-0.10	Passed	-0.10
14/12/2018	Passed	-0.09	Passed	-0.06
15/12/2018	Passed	-0.06	Passed	-0.06
16/12/2018	Passed	-0.05	Passed	-0.08
17/12/2018	Passed	-0.08	Passed	-0.02
18/12/2018	Passed	-0.07	Passed	-0.04
19/12/2018	Passed	-0.06	Passed	-0.01
20/12/2018	Passed	-0.04	Passed	-0.02
21/12/2018	Passed	-0.03	Passed	-0.04
22/12/2018	Passed	-0.03	Passed	-0.03
23/12/2018	Passed	-0.08	Passed	-0.07
24/12/2018	Passed	-0.08	Passed	-0.07
25/12/2018	Passed	-0.07	Passed	-0.05
26/12/2018	Passed	-0.05	Passed	-0.04
27/12/2018	Passed	-0.06	Passed	-0.02
28/12/2018	Passed	-0.10	Passed	-0.08
29/12/2018	Passed	-0.11	Passed	-0.11
30/12/2018	Passed	-0.13	Passed	-0.11
31/12/2018	Passed	-0.16	Passed	-0.09

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.