

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: October 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)
03/10/2019	268.228	4	2.87	13.07
09/10/2019	267.781	4	2.91	13.24
15/10/2019	267.247	4	2.93	13.35
21/10/2019	266.581	4	2.92	13.32
27/10/2019	265.945	4	2.92	13.31

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)
03/10/2019	256.899	4	2.93	13.35
09/10/2019	256.427	4	2.96	13.47
15/10/2019	255.809	4	2.98	13.60
21/10/2019	255.171	4	2.98	13.57
27/10/2019	254.597	4	2.98	13.56

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)
03/10/2019	255.765	4	3.00	13.67
09/10/2019	255.392	4	3.00	13.67
15/10/2019	254.918	4	3.00	13.67
21/10/2019	256.705	4	3.00	13.67
27/10/2019	256.135	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
16/10/2019 / 14:30	HM Chan / TK Ku

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	5580
Used filter paper no.	MQ41
New filter paper no.	MQ42

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: 5.036
After: 5.036

- 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: HM Chan / TK Ku

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)
01/10/2019	Passed	0.03	Passed	-0.05
02/10/2019	Passed	0.03	Passed	-0.04
03/10/2019	Passed	0.02	Passed	-0.05
04/10/2019	Passed	0.06	Passed	-0.07
05/10/2019	Passed	0.06	Passed	-0.05
06/10/2019	Passed	-0.04	Passed	-0.06
07/10/2019	Passed	0.07	Passed	-0.02
08/10/2019	Passed	0.15	Passed	-0.02
09/10/2019	Passed	0.15	Passed	-0.01
10/10/2019	Passed	0.17	Passed	-0.01
11/10/2019	Passed	0.19	Passed	0.03
12/10/2019	Passed	0.20	Passed	0.01
13/10/2019	Passed	0.09	Passed	0.00
14/10/2019	Passed	0.08	Passed	-0.02
15/10/2019	Passed	0.15	Passed	-0.02
16/10/2019	Passed	0.13	Passed	-0.04
17/10/2019	Passed	0.13	Passed	-0.04
18/10/2019	Passed	0.10	Passed	-0.01
19/10/2019	Passed	0.13	Passed	-0.02
20/10/2019	Passed	0.13	Passed	-0.03
21/10/2019	Passed	0.15	Passed	-0.02
22/10/2019	Passed	0.15	Passed	-0.01
23/10/2019	Passed	0.15	Passed	-0.02
24/10/2019	Passed	0.16	Passed	-0.01
25/10/2019	Passed	0.18	Passed	-0.01
26/10/2019	Passed	0.15	Passed	0.01
27/10/2019	Passed	0.17	Passed	-0.02
28/10/2019	Passed	0.16	Passed	0.03
29/10/2019	Passed	0.15	Passed	-0.05
30/10/2019	Passed	0.16	Passed	0.03
31/10/2019	Passed	0.17	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.