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: 2023

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)
4/11/2023	267.006	4	2.87	10.31
10/11/2023	266.450	4	2.87	10.31
16/11/2023	265.976	4	2.94	10.31
22/11/2023	264.869	4	2.90	10.31
28/11/2023	270.065	4	2.91	10.31

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)
4/11/2023	265.721	4	3.00	13.66
10/11/2023	265.225	4	3.00	13.66
16/11/2023	264.721	4	3.00	13.66
22/11/2023	267.338	4	3.00	13.66
28/11/2023	266.646	4	3.00	13.66

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)
4/11/2023	257.588	4	2.27	13.16
10/11/2023	257.208	4	2.04	12.50
16/11/2023	256.901	4	1.88	13.68
22/11/2023	255.872	4	2.37	13.53
28/11/2023	255.363	4	1.98	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
24/11/2023 / 11:00	Eric Ku

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	5580
Used Filter Paper No.	MS92
New Filter Paper No.	MS93

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:	5.037
After:	5.037 (No Adjustment)

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

III. Remarks

Timer had been out of battery and the battery was replaced. The Mini-Vol was set deferred to operate on 25/09/2023 (Sat) instead of 22/09/2023 (Wed) as scheduled.

Conducted by: Eric Ku Checked by: SM Hon

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

Date	Location: Ash Lagoon		Location: Ching Lam	
	Calibration Results	Deviation from Reference (dB)	Calibration Results	Deviation from Reference (dB)
01/11/2023	Passed	-0.03	Passed	-0.06
02/11/2023	Passed	-0.04	Passed	-0.08
03/11/2023	Passed	-0.04	Passed	-0.07
04/11/2023	Passed	-0.04	Passed	-0.07
05/11/2023	Passed	-0.04	Passed	-0.06
11/11/2023	Passed	0.00	Passed	-0.05
07/11/2023	Passed	-0.03	Passed	-0.06
08/11/2023	Passed	-0.02	Passed	-0.06
09/11/2023	Passed	-0.02	Passed	-0.05
10/11/2023	Passed	-0.03	Passed	-0.06
11/11/2023	Passed	-0.03	Passed	-0.06
12/11/2023	Passed	-0.05	Passed	-0.06
13/11/2023	Passed	-0.08	Passed	-0.10
14/11/2023	Passed	-0.06	Passed	-0.12
15/11/2023	Passed	-0.06	Passed	-0.08
16/11/2023	Passed	-0.07	Passed	-0.09
17/11/2023	Passed	-0.06	Passed	-0.12
18/11/2023	Passed	-0.07	Passed	-0.10
19/11/2023	Passed	-0.07	Passed	-0.09
20/11/2023	Passed	-0.05	Passed	-0.08
21/11/2023	Passed	-0.06	Passed	-0.11
22/11/2023	Passed	-0.06	Passed	-0.10
23/11/2023	Passed	-0.05	Passed	-0.06
24/11/2023	Passed	-0.06	Passed	-0.10
25/11/2023	Passed	-0.08	Passed	-0.10
26/11/2023	Passed	-0.07	Passed	-0.10
27/11/2023	Passed	-0.06	Passed	-0.10
28/11/2023	Passed	-0.05	Passed	-0.08
29/11/2023	Passed	-0.05	Passed	-0.07
30/11/2023	Passed	-0.04	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.