

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: September

Year: 2016

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)
6/9/2016	258.499	4	2.98	13.57
12/9/2016	258.320	4	2.94	13.41
18/9/2016	257.866	4	2.94	13.39
24/9/2016	272.493	4	2.94	13.38
30/9/2016	271.475	4	2.95	13.46

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)
6/9/2016	257.476	4	2.99	13.64
12/9/2016	257.175	4	2.96	13.66
18/9/2016	256.491	4	2.95	13.43
24/9/2016	255.931	4	2.97	13.54
30/9/2016	256.416	4	2.99	13.63

Ash Lagoon (AM3)				
Date	Frequency (Hz) (240 – 275)	Operation Mode (Mode 4)	Main Flow (l/min) (0.90 – 1.10)	Bypass Flow (l/min) (14.10 – 17.20)
6/9/2016	263.488	4	1.00	15.69
12/9/2016	263.426	4	1.00	15.69
18/9/2016	263.251	4	1.00	15.69
24/9/2016	256.253	4	1.00	15.69
30/9/2016	255.940	4	1.00	15.69

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 : *Alan*

Checked by : *[Signature]*

HIGH VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name: RE Site No.: AM1
 Date of visit: 19-9-2016 Hour of Visit: 10:00
 Staff name: W.M. TAM / W.H. MAN HVAS S/N: 0131
 Used filter paper no.: MH 26 New filter paper no.: MH 28
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = 305.9$ K Pressure, $P_a = 1001.8$ mb

II. Correction of manometer reading

Calibration orifice No.	Manometer reading at site conditions corresponds to $Q_{STD} = 40$ ft ³ /min. (inch H ₂ O)
1535(10/2015)	$-H_a = 17.93(T_a/P_a) = 5.47$

Manometer reading before calibration: 5.50
 Adjustment of flow controller (Y/N): N
 Manometer reading after calibration: N/A

Note: Tolerance Limit of HVAS flow: " 1.0 ft³/min. Corresponding limits for manometer : " 0.2 inch H₂O

III. General Conditions of HVAS

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IV. Remarks

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Conducted by: W.M. TAM / W.H. MAN Checked by: pleo

HIGH VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name: EG Site No.: AM2
 Date of visit: 19-9-2016 Hour of Visit: 14:30
 Staff name: W.M. TAM/W.H. MAN HVAS S/N: 0132
 Used filter paper no.: MH27 New filter paper no.: MH29
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = 306.5$ K Pressure, $P_a = 1004.3$ mb

II. Correction of manometer reading

Calibration orifice No.	Manometer reading at site conditions corresponds to $Q_{STD} = 40$ ft ³ /min. (inch H ₂ O)
1535(10/2015)	$-H_a = 17.93(T_a/P_a) = 5.47$

Manometer reading before calibration: 5.70
 Adjustment of flow controller (Y/N): Y
 Manometer reading after calibration: 5.50

Note: Tolerance Limit of HVAS flow: " 1.0 ft³/min. Corresponding limits for manometer : " 0.2 inch H₂O

III. General Conditions of HVAS

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IV. Remarks

Carbon brush replaced.

Conducted by: W.M. TAM/W.H. MAN Checked by: Alp.

MINI VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name: TYV Site No.: AM4
Date of visit: 19-9-2016 Hour of Visit: 15:30
Staff name: W.M. TAM/W.H. MAN MINIVOL S/N: 3393
Used filter paper no.: M051 New filter paper no.: M052

Type of filter: Cellulose / Glass-fibre
(Delete as appropriate)

I. Calibration is performed by using Drycal DC-2 Flow Calibrator
5 Sl/min set point is recommended

5.02 Before 5.02 After

II. General Service of Mini Vol Air Sampler

1. Clean Rotameter: ✓
2. Clean / replace Pump Valves: X
3. Clean / replace Pump Diaphragms: X
4. Clean Impaction Inlet: ✓
5. Replace Timer Battery Every 6 months: X
6. Replace Inlet Filter: ✓

III. Remarks

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Conducted by: W.M. TAM/W.H. MAN

Checked by: Alex

THE HONGKONG ELECTRIC CO., LTD.
LAMMA POWER STATION AND LAMMA EXTENSION
NOISE MONITORING STATIONS
SITE VISIT LOG SHEET

Location ~~Station Building Rooftop/Reservoir Area/Ching Lam/~~
~~Ash Lagoon/No.2 Limestone Silo Roof/Hung Shing Ye*~~

Date 21-9-2016 Time 10:30 hrs

Equipment B&K 2250 Serial No. 3008903

Staff Attended W.M.TAM | W.H.MAN

1. Calibration

Acoustic calibrator: B&K 4231 (SN: 27301119)

Noise level measured in calibration: 93.9 (94±1.0 dBA)

2. Weather Conditions

a. Sunny/~~fine~~/~~cloudy~~/~~showery~~/~~heavy rain~~*

b. ~~Strong wind~~/~~breeze~~/~~calm~~*

3. Beacon

Function normally (Yes/~~No~~): ✓

4. Remark/Observation

✓

Note: * - Please delete where inappropriate.

Conducted By: W.M.TAM | W.H.MAN Checked By: Terena Chu

THE HONGKONG ELECTRIC CO., LTD.
LAMMA POWER STATION AND LAMMA EXTENSION
NOISE MONITORING STATIONS
SITE VISIT LOG SHEET

Location ~~Station Building Rooftop/Reservoir Area/Ching Lam/~~
~~Ash Lagoon/No.2 Limestone Silo Roof/Hung Shing Ye*~~

Date 22-9-2016 Time 10:40 hrs

Equipment B&K 2250 Serial No. 3008621

Staff Attended W.M. TAM / W.H. MAN

1. Calibration

Acoustic calibrator: B&K 4231 (S/N 2730419)

Noise level measured in calibration: 93.8 (94±1.0 dBA)

2. Weather Conditions

a. ~~Sunny/fine/cloudy/showery/heavy rain*~~

b. ~~Strong wind/breeze/calm*~~

3. Beacon

Function normally (Yes/No): /

4. Remark/Observation

 /

Note: * - Please delete where inappropriate.

Conducted By: W.M. TAM / W.H. MAN Checked By: Teresa Chan