

Appendix F

The QA/QC Procedures and Results

HIGH VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name: R.E. Site No.: Am 1
 Date of visit: 12-10-06 Hour of Visit: 11:11
 Staff name: H.K. TSANG HVAS S/N: 2198
 Used filter paper no.: LTP8 New filter paper no.: L000
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = \overset{29.8+273}{=302.8}$ K Pressure, $P_a = \underline{1015}$ mb

II. Correction of manometer reading

Calibration orifice No.	Manometer reading at site conditions corresponds to $Q_{STD} = 40 \text{ ft}^3/\text{min}$. (inch H ₂ O)
1534(09/2006)	$H_a = 18.17(T_a/P_a) = \underline{5.42}$

Manometer reading before calibration: 5.5
 Adjustment of flow controller (Y/N): N
 Manometer reading after calibration: 5.5

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

III. General Conditions of HVAS

IV. Remarks

HIGH VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name: E.G. Site No.: AM 2
 Date of visit: 12-10-06 Hour of Visit: 11:40
 Staff name: w.l. MAK, H.K.T. SANG HVAS S/N: 21P5
 Used filter paper no.: LT PP New filter paper no.: 2001
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = \underline{30.0 \pm 0.2}^{\circ}\text{C}$ Pressure, $P_a = \underline{1020}$ mb
 303

II. Correction of manometer reading

Calibration orifice No.	Manometer reading at site conditions corresponds to $Q_{STD} = 40 \text{ ft}^3/\text{min}$. (inch H_2O)
1534(09/2006)	$H_a = 18.17(T_a/P_a) = \underline{5.4}$

Manometer reading before calibration: 5.7
 Adjustment of flow controller (Y/N): Y
 Manometer reading after calibration: 5.5

Note: Tolerance Limit of HVAS flow: " 1.0 ft^3/min . Corresponding limits for manometer : " 0.2 inch H_2O

III. General Conditions of HVAS

IV. Remarks

MINI VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name: TYV Site No.: Am 4
 Date of visit: 12-10-2006 Hour of Visit: 0945
 Staff name: W. L. MAK MINIVOL S/N: 3393
 Used filter paper no.: MI 30 New filter paper no.: MI 31

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

4923 Before 5010 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

THE HONGKONG ELECTRIC CO., LTD.
LAMMA POWER STATION EXTENSION
TEOM 1400A CONTINUOUS DUST MONITOR
DATA QUALITY ASSURANCE LOG SHEET

Month : October Year : 2006

Reservoir (AM1)					
Date	Frequency (Hz) (230 – 260)	Noise (< 0.1)	Operation Mode (Mode 4)	Main Flow (l/min) (0.94 – 1.06)	Aux. Flow (l/min) (14.67 – 16.67)
5/10/2006	239.43	0.051	4	1.00	15.67
11/10/2006	239.05	0.045	4	1.00	15.67
17/10/2006	238.84	0.053	4	1.00	15.67
23/10/2006	238.64	0.058	4	1.00	15.67
29/10/2006	238.64	0.033	4	1.00	15.67

East Gate (AM2)					
Date	Frequency (Hz) (230 – 250)	Noise (< 0.1)	Operation Mode (Mode 4)	Main Flow (l/min) (0.94 – 1.06)	Aux. Flow (l/min) (14.67 – 16.67)
5/10/2006	231.09	0.055	4	1.00	15.62
11/10/2006	230.73	0.046	4	0.99	15.62
17/10/2006	230.53	0.051	4	1.00	15.63
23/10/2006	231.78	0.053	4	0.99	15.62
29/10/2006	231.59	0.049	4	1.00	15.63

Ash Lagoon (AM3)					
Date	Frequency (Hz) (230 – 270)	Noise (< 0.1)	Operation Mode (Mode 4)	Main Flow (l/min) (0.94 – 1.06)	Aux. Flow (l/min) (14.67 – 16.67)
5/10/2006	231.21	0.043	4	1.00	15.66
11/10/2006	232.02	0.046	4	1.00	15.66
17/10/2006	231.79	0.036	4	1.00	15.65
23/10/2006	231.59	0.032	4	1.00	15.66
29/10/2006	231.40	0.027	4	1.00	15.67

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 : *Abn.*

Checked by : *Ch*

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

Location Ash Lagoon/~~Ching Lam*~~

Date 4-10-06 Time 15:30

Equipment Rion NA-27/~~B&K-2238F*~~ Sound Level Meter

Serial Number ~~00111465/00111466/00111467/2343838/2356907*~~

Staff Attended W. L. MAK, H. K. TSANG

1. Calibration

Acoustic calibrator used Rion NC-74

Calibration level before adjustment (dB(A)) 94.0

Calibration level after adjustment (dB(A)) 94

2. Weather Conditions

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

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

3. Remark/Observation

Note: * - Please delete where inappropriate

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

Location ~~Ash Lagoon~~/Ching Lam*
Date 11-10-06 Time 10:50
Equipment ~~Rion NA-27/B&K 2238F~~* Sound Level Meter
2250
Serial Number 00111465/00111466/00111467/2343838/2356907*
2456452
Staff Attended W.L.MAK ; H.K.TSANG

1. Calibration

Acoustic calibrator used Rion NC-74
Calibration level before adjustment (dB(A)) 94.0
Calibration level after adjustment (dB(A)) 94

2. Weather Conditions

- a. ~~Sunny/fine/cloudy/showery/heavy rain*~~
b. ~~Strong wind/breeze/calm*~~

3. Remark/Observation

Note: * - Please delete where inappropriate

Equipment Calibration Record for October 2006

Site: Civil works for 275kV Cable Route from Lamma Island to Cyberport

Noise Equipment Used: B&K 2238

Calibrator Used: B&K 4231

Measurement Location: N4 – Pak Kok Tsui No. 2

Date	Calibration Level before Measurement (dB(A))	Calibration Level after Measurement (dB(A))	Calibrated by
03/10/2006	94.0	94.0	Anthony Tang
06/10/2006	94.0	94.0	Anthony Tang
10/10/2006	94.0	94.0	Anthony Tang
13/10/2006	94.0	94.0	Anthony Tang
17/10/2006	94.0	94.0	C K Siu
20/10/2006	94.0	94.0	C K Siu
24/10/2006	94.0	94.0	C K Siu
27/10/2006	94.0	94.0	C K Siu
31/10/2006	94.0	94.0	C K Siu

Measurement Location: N5 – Pak Kok Tsui No. 8

Date	Calibration Level before Measurement (dB(A))	Calibration Level after Measurement (dB(A))	Calibrated by
03/10/2006	94.0	94.0	Anthony Tang
06/10/2006	94.0	94.0	Anthony Tang
10/10/2006	94.0	94.0	Anthony Tang
13/10/2006	94.0	94.0	Anthony Tang
17/10/2006	94.0	94.0	C K Siu
20/10/2006	94.0	94.0	C K Siu
24/10/2006	94.0	94.0	C K Siu
27/10/2006	94.0	94.0	C K Siu
31/10/2006	94.0	94.0	C K Siu

Note: Measurement accepted as valid only if the calibration levels from before and after the noise measurement agreed to within 1.0 dB.