

Appendix F

The QA/QC Procedures and Results

HIGH VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name: R.E. Site No.: AM1
 Date of visit: 12-1-05 Hour of Visit: 13:47
 Staff name: W.L. YAK, H.K. Tsang HVAS S/N: 2198
 Used filter paper no.: LS62 New filter paper no.: LS64
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = \frac{35.1 + 273}{-308.1}$ K Pressure, $P_a = 1008$ 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(09/2004)	$\Delta H_a = 18.33(T_a/P_a) = 5.62$

Manometer reading before calibration: 5.8
 Adjustment of flow controller (Y/N): Y
 Manometer reading after calibration: 5.6

Note: Tolerance Limit of HVAS flow: $\pm 1.0 \text{ ft}^3/\text{min}$. Corresponding limits for manometer : $\pm 0.2 \text{ inch H}_2\text{O}$

III. General Conditions of HVAS

IV. Remarks

HIGH VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name: E.G. Site No.: AM2
 Date of visit: 12-P-05 Hour of Visit: 11:45
 Staff name: W.L. MAK, H.K. TSANG HVAS S/N: 2195
C. H. HUNG New filter paper no.: LS65
 Used filter paper no.: LS63
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = \frac{32.5 + 273}{-305.5}$ K Pressure, $P_a = \frac{1010}{1018}$ 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_2O)
1534(09/2004)	$\Delta H_a = 18.33(T_a/P_a) = \underline{5.54}$

Manometer reading before calibration: 5.8
 Adjustment of flow controller (Y/N): Y
 Manometer reading after calibration: 5.5

Note: Tolerance Limit of HVAS flow: $\pm 1.0 \text{ ft}^3/\text{min}$. Corresponding limits for manometer : $\pm 0.2 \text{ inch H}_2\text{O}$

III. General Conditions of HVAS

IV. Remarks

MINI VOLUME AIR SAMPLER

SITE VISIT LOG SHEET

Site Name: TYV Site No.: AM4

Date of visit: 12-9-05 Hour of Visit: 11:15

Staff name: H.K.TSANG MINIVOL S/N: 383

Used filter paper no.: MH62 New filter paper no.: MH63

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

5.0 Before 5.0 After

II. General Service of Mini Vol Air Sampler

1. Clean Rotameter: X
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 : September Year : 2005

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)
4/9/2005	257.66	0.027	4	1.00	15.68
10/9/2005	257.29	0.041	4	1.00	15.68
16/9/2005	256.93	0.040	4	1.00	15.68
22/9/2005	256.72	0.042	4	1.00	15.68
28/9/2005	256.49	0.041	4	1.00	15.68

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)
4/9/2005	246.05	0.061	4	0.99	15.62
10/9/2005	245.64	0.057	4	0.99	15.62
16/9/2005	245.25	0.055	4	0.99	15.63
22/9/2005	245.02	0.060	4	0.99	15.63
28/9/2005	246.27	0.051	4	0.99	15.64

Ash Lagoon (AM3)					
Date	Frequency (Hz) (240 – 270)	Noise (< 0.1)	Operation Mode (Mode 4)	Main Flow (l/min) (0.94 – 1.06)	Aux. Flow (l/min) (14.67 – 16.67)
4/9/2005	248.86	0.038	4	1.00	15.67
10/9/2005	248.56	0.044	4	1.00	15.68
16/9/2005	248.27	0.051	4	1.00	15.66
22/9/2005	248.86	0.028	4	1.00	15.67
28/9/2005	248.66	0.053	4	1.00	15.68

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 : *Men*

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 14-9-05 Time 10:30

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 16-P-05 Time 10:50

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

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

Staff Attended H.K. TSANG ; C.H. HUNG

1. Calibration

Acoustic calibrator used Rion NC-74

Calibration level before adjustment (dB(A)) 93P

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

18/5/2004

Equipment Calibration Record for August 2005

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

Noise Equipment Used: RION NL – 31(*) / ACO TYPE 6224(#)

Calibrator Used: ACO TYPE 2126

Measurement Location: N4 – Pak Kok Tsui No. 2

Date	Calibration Level before Measurement (dB(A))	Calibration Level after Measurement (dB(A))	Calibrated by
02/08/2005(#)	94.0	94.0	Anthony Wong
05/08/2005(#)	94.0	94.0	Anthony Wong
09/08/2005(#)	94.0	94.0	Anthony Wong
12/08/2005(#)	94.0	94.0	Anthony Wong
16/08/2005(#)	94.0	94.0	Anthony Wong
19/08/2005(#)	94.0	94.0	Anthony Wong
23/08/2005(*)	94.0	94.0	Anthony Wong
26/08/2005(*)	94.0	94.0	Anthony Wong
30/08/2005(*)	94.0	94.0	Anthony Wong

Measurement Location: N5 – Pak Kok Tsui No. 8

Date	Calibration Level before Measurement (dB(A))	Calibration Level after Measurement (dB(A))	Calibrated by
02/08/2005(#)	94.0	94.0	Anthony Wong
05/08/2005(#)	94.0	94.0	Anthony Wong
09/08/2005(#)	94.0	94.0	Anthony Wong
12/08/2005(#)	94.0	94.0	Anthony Wong
16/08/2005(#)	94.0	94.0	Anthony Wong
19/08/2005(#)	94.0	94.0	Anthony Wong
23/08/2005(*)	94.0	94.0	Anthony Wong
26/08/2005(*)	94.0	94.0	Anthony Wong
30/08/2005(*)	94.0	94.0	Anthony Wong

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