

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: 12-2-2003 Hour of Visit: 1100
 Staff name: W. L. MAK HVAS S/N: 2168
 Used filter paper no.: LP 36 New filter paper no.: LP 38
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = \frac{273 + 21.6}{294.6}$ K Pressure, $P_a = 1024$ 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(04/2002)	$\Delta H_a = 18.0(T_a/P_a) = 5.17$
1535(04/2002)	$\Delta H_a = 17.9(T_a/P_a) = \underline{\hspace{2cm}}$

Manometer reading before calibration: 5.10
 Adjustment of flow controller (Y/N): Y
 Manometer reading after calibration: 5.20

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: EG Site No.: Am 2
 Date of visit: 12-2-2003 Hour of Visit: 11:35
 Staff name: W. L. MARK HVAS S/N: 2185
 Used filter paper no.: LP 37 New filter paper no.: LP 39
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = \frac{22 + 273}{273}$ K Pressure, $P_a = 1028$ 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(04/2002)	$\Delta H_a = 18.0(T_a/P_a) = 5.17$
1535(04/2002)	$\Delta H_a = 17.9(T_a/P_a) = \underline{\hspace{2cm}}$

Manometer reading before calibration: 5.4
 Adjustment of flow controller (Y/N): Y
 Manometer reading after calibration: 5.2

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

PARTISOL TSP SAMPLER
SITE VISIT LOG SHEET

Site Name: ASH LAGOON Site Number: AM 3
Date of Visit: 6-2-2003 Hour of Visit: 1110
Staff Name: W. L. MAK Partisol S/N: 2000B 2055001
Used Filter No.: PB 16 New Filter No.: PB 17
Ambient temperature: 27.2 + 17.0 Ambient pressure: 1025

I. General Services

1. Replace control unit Large In-line Filter X
2. Clean the sample inlet head ✓
3. Clean sample tube ✓
4. Clean / Replace pump head X
5. Clean / Replace piston X

II. Operational Audits (3 months interval as recommended by manufacturer)

1. Temperature Check (Ambient temperature $\pm 2^{\circ}\text{C}$)

17.0 °C Before Calibration: X/N 17.0 °C After

2. Pressure Check (Ambient pressure ± 20 mbar)(factor = 0.000987)

1.010 ^{ATM}_{mbar} Before Calibration: X/N 1027 mbar After

3. Flow Check (16.7 \pm 1.1 litre/min)

16.6 l/min Before Calibration: X/N 17.02 l/min After

III. Remarks

MINI VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name: TYV Site No.: AM 4
Date of visit: 12-2-2003 Hour of Visit: 11:10
Staff name: H.K. ISANIG MINIVOL S/N: 803
Used filter paper no.: MF83 New filter paper no.: 7784
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

5.00 Before 5.00 After

II. General Service of Mini Vol Air Sampler

1. Clean Rotameter: X
2. Clean / replace Pump Valves: ✓
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 : FEB

Year : 2003

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)
5-2-03	253.87	0.033	4	1.00	15.67
11-2-03	255.29	0.027	4	1.00	15.67
17-2-03	253.09	0.029	4	1.00	15.67
23-2-03	254.73	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)
5-2-03	245.52	0.027	4	1.00	15.66
11-2-03	243.25	0.029	4	1.00	15.65
17-2-03	243.05	0.034	4	1.00	15.65
23-2-03	243.40	0.032	4	1.00	15.65

Ash Lagoon (AM3)					
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)
5-2-03	246.09	0.040	4	1.00	15.64
11-2-03	245.54	0.029	4	0.99	15.64
17-2-03	248.65	0.025	4	1.00	15.64
23-2-03	246.34	0.035	4	1.00	15.64

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 : _____

Checked by : _____

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

Location Ash Lagoon/Ching Lam*

Date 12-2-2003 Time 10:45

Equipment Rion NA-27 Sound Level Meter

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

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 14-2-2003 Time 10:35

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

Serial Number 2343838
00111465/00111466/00111467*

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