

Appendix F

The QA/QC Procedures and Results

HIGH VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name: R.C Site No.: AM1
 Date of visit: 13-5-2003 Hour of Visit: 1115
 Staff name: W.L. MAK HVAS S/N: 2198
 Used filter paper no.: LP67 New filter paper no.: LP69
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = \frac{273 + 32.3}{305.3}$ K Pressure, $P_a = \underline{1009}$ 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)	$\Delta H_a = 18.0(T_a/P_a) = \underline{5.44}$
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: 5.40

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-7 Site No.: AM2
 Date of visit: 13-5-2003 Hour of Visit: 11:45
 Staff name: W.L.MDK. H.K. HVAS S/N: 21P5
 Used filter paper no.: LP68 New filter paper no.: LP70
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = \frac{34.6 + 273}{307.6}$ K Pressure, $P_a = 1013$ 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)	$\Delta H_a = 18.0(T_a/P_a) = 54.7$
1535(04/2002)	$\Delta H_a = 17.9(T_a/P_a) = \underline{\hspace{2cm}}$

Manometer reading before calibration: 5.2
 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

PARTISOL TSP SAMPLER
SITE VISIT LOG SHEET

Site Name: ASH LAGOON Site Number: Am 3
Date of Visit: 13-5-2003 Hour of Visit: 11:00
Staff Name: W. L. MAH / H. K. TANIG Partisol S/N: 2000 B 2055001
Used Filter No.: PB34 New Filter No.: PB35
Ambient temperature: 34° Ambient pressure: 1015

I. General Services

1. Replace control unit Large In-line Filter X
2. Clean the sample inlet head ✓
3. Clean sample tube X
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 $\pm 2^{\circ}\text{C}$)

_____ $^{\circ}\text{C}$ Calibration: Y/N _____ $^{\circ}\text{C}$
Before After

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

_____ mbar Calibration: Y/N _____ mbar
Before After

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

_____ l/min Calibration: Y/N _____ l/min
Before After

III. Remarks

MINI VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name: TYU Site No.: AM4
Date of visit: 13-5-2005 Hour of Visit: 11:20
Staff name: H. K. ISANG MINIVOL S/N: 903
Used filter paper no.: 11607 New filter paper no.: 11609
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

4.370 Before 5000 After

II. General Service of Mini Vol Air Sampler

1. Clean Rotameter: _____ ✓
2. Clean / replace Pump Valves: _____ ×
3. Clean / replace Pump Diaphragms: _____ ×
4. Clean Impaction Inlet: _____ ×
5. Replace Timer Battery Every 6 months: _____ ×
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 : MAY 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)
6-5-03	256.01	0.019	4	1.00	15.67
12-5-03	255.82	0.058	4	1.00	15.63
18-5-03	255.63	0.029	4	1.00	15.67
24-5-03	253.47	0.030	4	1.00	15.68
30-5-03	253.17	0.027	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)
6-5-03	247.33	0.042	4	1.00	15.63
12-5-03	247.14	0.036	4	0.99	15.63
18-5-03	246.97	0.041	4	1.00	15.63
24-5-03	247.88	0.033	4	0.99	15.63
30-5-03	249.58	0.029	4	1.00	15.63

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)
6-5-03	246.41	0.032	4	1.00	15.63
12-5-03	246.23	0.036	4	0.99	15.64
18-5-03	257.75	0.030	4	0.99	15.63
24-5-03	237.56	0.037	4	0.99	15.64
30-5-03	237.24	0.031	4	1.00	15.63

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 : ALC

Checked by : [Signature]

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

Location Ash Lagoon/~~Ching Lam~~*

Date 13-5-2003 Time 10:25

Equipment Rion NA-27 Sound Level Meter

Serial Number 00111465/00111466/00111467*

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

1. Calibration

Acoustic calibrator used Rion NC-74

Calibration level before adjustment (dB(A)) 94.1

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 14-5-2003 Time 10.15

Equipment BJK 2238F Rion NA-27 Sound Level Meter

Serial Number 00111465/00111466/00111467* 23438'38

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