

Appendix F

The QA/QC Procedures and Results

HIGH VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name: RE Site No.: AM1
 Date of visit: 14-3-03 Hour of Visit: 10:55
 Staff name: W.L. MAK HVAS S/N: 2198
 Used filter paper no.: LP47 New filter paper no.: LP49
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = \frac{273 + 22.0}{295.0}$ K Pressure, $P_a = 1017$ 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)	$\Delta H_a = 18.0(T_a/P_a) = 5.23$
1535(04/2002)	$\Delta H_a = 17.9(T_a/P_a) =$ _____

Manometer reading before calibration: 5.30
 Adjustment of flow controller (Y/N): N
 Manometer reading after calibration: 5.30

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.: Atm 2
 Date of visit: 14-3-03 Hour of Visit: 1000
 Staff name: W. L. PATE/1116 HVAS S/N: 2195
 Used filter paper no.: LP48 New filter paper no.: LP50
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = \frac{273 + 21.5}{294.5}$ K Pressure, $P_a = 1019$ 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)
✓ 1534(04/2002)	$\Delta H_a = 18.0(T_a/P_a) = 5.20$
1535(04/2002)	$\Delta H_a = 17.9(T_a/P_a) = \underline{\hspace{2cm}}$

Manometer reading before calibration: 5.20

Adjustment of flow controller (Y/N): N

Manometer reading after calibration: 5.20

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

PARTISOL TSP SAMPLER
SITE VISIT LOG SHEET

Site Name Ash Lagoon Site Number AM3
Date of Visit 17-3-03 Hour of Visit 10:30
Staff Name W.L. Mak, H.K. Tsang Partisol S/N: 20005 2035001
Used Filter No.: PB 23 New Filter No.: PB 24
Ambient temperature: 22 Ambient pressure: 1016

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 $\pm 2^\circ\text{C}$)

22 °C Before Calibration: Y/N 22 °C After

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

1.010 ^{ATM} mbar Before Calibration: Y/N 1.027 mbar After

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

16.6 cc/min Before Calibration: Y/N 16.6 cc/min After

III. Remarks

MINI VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name: TYV Site No.: AM4
Date of visit: 4-3-2003 Hour of Visit: 12:00
Staff name: H.K. TAN MINIVOL S/N: 903
Used filter paper no.: MF 88 New filter paper no.: MF 89
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

5.006 Before 5.006 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: x
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: MAR

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)
1-3-03	254.51	0.034	4	1.00	15.67
2-3-03	255.54	0.049	4	1.00	15.67
13-3-03	255.22	0.026	4	1.00	15.67
19-3-03	255.06	0.029	4	1.00	15.68
25-3-03	254.81	0.037	4	1.00	15.68
31-3-03	254.22	0.057	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)
1-3-03	245.17	0.030	4	1.00	15.65
7-3-03	244.98	0.021	4	1.00	15.65
13-3-03	246.73	0.020	4	1.00	15.66
15-3-03	246.84	0.030	4	0.99	15.63
25-3-03	246.22	0.026	4	1.00	15.63
31-3-03	246.11	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)
1-3-03	248.13	0.035	4	1.00	15.64
7-3-03	247.96	0.040	4	0.99	15.64
13-3-03	248.31	0.045	4	0.99	15.64
19-3-03	248.15	0.038	4	1.00	15.63
25-3-03	247.92	0.036	4	1.00	15.63
31-3-03	247.71	0.044	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: Alvin

Checked by: Colin

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

Location Ash Lagoon/Ching Lam*
Date 12-3-2003 Time 10:45
Equipment BJK 2238F
Rion NA-27 Sound Level Meter
Serial Number 00111465/00111466/00111467* 2343838
Staff Attended H.K. TSANG

1. Calibration

Acoustic calibrator used Rion NC-74
Calibration level before adjustment (dB(A)) 93.8
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 14-3-2003 Time 14:10

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