

# 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: 20/11/02 Hour of Visit: 1035  
 Staff name: W. L. MAE HVAS S/N: 2198  
 Used filter paper no.: LP08 New filter paper no.: LP10  
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature,  $T_a = \underline{27.3 + 24.0}$  K Pressure,  $P_a = \underline{1012}$  mb  
297.0

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 <sub>2</sub> O)
✓ 1534(04/2002)	$\Delta H_a = 18.0(T_a/P_a) = \underline{5.28}$
1535(04/2002)	$\Delta H_a = 17.9(T_a/P_a) = \underline{\hspace{2cm}}$

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

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IV. Remarks

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HIGH VOLUME AIR SAMPLER  
SITE VISIT LOG SHEET

Site Name: E.G. Site No.: AM 2  
 Date of visit: 20-11-2002 Hour of Visit: 10:10  
 Staff name: W. L. M. K.; H. K. T. S. A. N. G. HVAS S/N: 21PV  
 Used filter paper no.: No LFCP New filter paper no.: LP11  
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature,  $T_a = \frac{273 + 23.3}{296.3}$  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 $\text{H}_2\text{O}$ )
✓ 1534(04/2002)	$\Delta H_a = 18.0(T_a/P_a) = 5.24$
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:  $\pm 1.0 \text{ ft}^3/\text{min}$ . Corresponding limits for manometer :  $\pm 0.2 \text{ inch H}_2\text{O}$

III. General Conditions of HVAS

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IV. Remarks

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PARTISOL TSP SAMPLER  
SITE VISIT LOG SHEET

Site Name ASH LAGOON Site Number AM 3  
Date of Visit 20/11/02 Hour of Visit 1340  
Staff Name W L MAK Partisol S/N: 2000B2051001  
Used Filter No.: PB03 New Filter No.: PB04  
Ambient temperature: 24.6 Ambient pressure: 1014

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

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

2. Pressure Check (Ambient pressure  $\pm 20$  mbar)(factor = 0.000987)

\_\_\_\_\_ mbar Calibration: Y/N \_\_\_\_\_ mbar  
Before After

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

\_\_\_\_\_ cc/min Calibration: Y/N \_\_\_\_\_ cc/min

III. Remarks

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MINI VOLUME AIR SAMPLER  
SITE VISIT LOG SHEET

Site Name: T.V.V. Site No.: Am.4

Date of visit: 11-11-2002 Hour of Visit: 10:10

Staff name: H.K. Jang MINIVOL S/N: 403

Used filter paper no.: MT 68 New filter paper no.: MT 6P

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

9.870 Before 5.00P 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

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

Month: NOV

Year: 2002

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)
1-11-02	236.83	0.043	4	1.00	15.67
7-11-02	255.57	0.037	4	1.00	15.65
13-11-02	255.27	0.037	4	1.00	15.67
19-11-02	255.09	0.037	4	1.00	15.67
25-11-02	254.64	0.031	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)
1-11-02	245.44	0.035	4	1.00	15.64
7-11-02	243.21	0.060	4	1.00	15.64
13-11-02	244.78	0.045	4	1.00	15.65
19-11-02	244.61	0.029	4	1.00	15.64
25-11-02	245.68	0.045	4	1.00	15.64

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)
1-11-02	246.94	0.043	4	0.99	15.65
7-11-02	246.62	0.028	4	0.99	15.64
13-11-02	246.30	0.026	4	0.99	15.64
19-11-02	246.57	0.016	4	0.99	15.64
25-11-02	246.22	0.039	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:

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Prepared by: Alex

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 19-11-2001 Time 14:10

Equipment Rion NA-2<sup>31</sup> Sound Level Meter

Serial Number -00111465/00111466/00111467\* 00520658

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

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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 20-11-2002 Time 11:45

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)) 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

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Note: \* - Please delete where inappropriate