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:	13-4-04	Hour of Visit:	10 20
Staff name:	W.C MAK	HVAS S/N:	2198
Used filter paper no.:	LQ82	New filter paper no.:	LQ84
Type of filter:	Glass-fibre		

I. Ambient Conditions

Temperature, T_a = $\frac{273+25.0}{298}$ K Pressure, P_a = 1009 mb

II. Correction of manometer reading

Calibration orifice No.	Manometer reading at site conditions corresponds to Q_{STD} = 40 ft^3/min. (inch H_2O)
1534(04/2002)	$\triangle H_a = 18.0(T_a/P_a)$ =
✓ 1535(09/2003)	$\triangle H_a = 18.2(T_a/P_a)$ = 5.37"

Manometer reading before calibration: 5.40"
Adjustment of flow controller (Y/N): N
Manometer reading after calibration: 5.40"

Note: Tolerance Limit of HVAS flow: ± 1.0 ft^3/min. Corresponding limits for manometer : ± 0.2 inch H_2O

III. General Conditions of HVAS

IV. Remarks

HIGH VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name:	TC1	Site No.:	AM2
Date of visit:	13-4-09	Hour of Visit:	1115
Staff name:	W L MAK	HVAS S/N:	2195
Used filter paper no.:	LQ83	New filter paper no.:	LQ85
Type of filter:	Glass-fibre		

I. Ambient Conditions

Temperature, T_a = 273+29 K Pressure, P_a = 1011 mb

II. Correction of manometer reading

Calibration orifice No.	Manometer reading at site conditions corresponds to Q_{STD} = 40 ft^3/min. (inch H_2O)
1534(04/2002)	$\triangle H_a = 18.0(T_a/P_a)$ =
✓ 1535(09/2003)	$\triangle H_a = 18.2(T_a/P_a)$ = 5.38"

Manometer reading before calibration: 5.10"
Adjustment of flow controller (Y/N): Y
Manometer reading after calibration: 5.30

Note: Tolerance Limit of HVAS flow: ± 1.0 ft^3/min. Corresponding limits for manometer : ± 0.2 inch H_2O

III. General Conditions of HVAS

IV. Remarks

PARTISOL TSP SAMPLER
SITE VISIT LOG SHEET

Site Name: Ark Kwoon Site Number: AR 3

Date of Visit: 13 - 4 - 04 Hour of Visit: 10:05

Staff Name: C.L.MAK ; H.K.TSANG Partisol S/N: 2000B 2055 0000 /

Used Filter No.: _____ New Filter No.: _____

Ambient temperature: 25.5°C Ambient pressure: 1013 mbar

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 ± 2°C)**

_____ °C Calibration: **Y / N** _____ °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± 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:	TY.V	Site No.:	Am 4
Date of visit:	13-4-04	Hour of Visit:	11:30
Staff name:	H.K.Tsang	MINIVOL S/N:	903
Used filter paper no.:	MG 69	New filter paper no.:	MG70

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: 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 : April Year : 2004

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)
6/4/2004	253.23	0.027	4	1.00	15.68
12/4/2004	254.93	0.030	4	1.00	15.68
18/4/2004	254.71	0.057	4	1.00	15.68
24/4/2004	254.53	0.024	4	1.00	15.68
30/4/2004	254.21	0.016	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)
6/4/2004	246.87	0.045	4	1.00	15.63
12/4/2004	246.56	0.027	4	1.00	15.64
18/4/2004	246.43	0.026	4	0.99	15.63
24/4/2004	247.13	0.047	4	1.00	15.63
30/4/2004	246.89	0.043	4	1.00	15.64

Ash Lagoon (AM3)					
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)
6/4/2004	255.61	0.036	4	1.00	15.64
12/4/2004	255.10	0.041	4	1.00	15.63
18/4/2004	253.06	0.028	4	1.00	15.64
24/4/2004	254.75	0.047	4	0.99	15.63
30/4/2004	254.43	0.033	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 : Alex

Checked by : Raudi

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

Location Ash Lagoon/~~Ching Lam*~~

Date 13-4-04 Time 10.20

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. ~~Sunn~~y/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 14-4-04 Time 14:10

Equipment BJK 2238F ~~Rion NA-27~~ Sound Level Meter

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

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. S~~unny/fine~~/cloudy/s~~howery/heavy rain~~*

   b. ~~Strong wind/breeze~~/calm*

3. Remark/Observation

Note: * - Please delete where inappropriate

28/3/2001