Appendix F

The QA/QC Procedures and Results

HIGH VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name:	RC.	Site No.:	AM1
Date of visit:	16-9-04	Hour of Visit:	10:00
Staff name:	U.LMAK, HKTSANG	HVAS S/N:	2198
Used filter paper no.:	LR39	New filter paper no.:	LR41
Type of filter:	Glass-fibre		

I. Ambient Conditions

Temperature, T_a = 287+273 / 301.7 K Pressure, P_a = 1012 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) ✓	$\triangle H_a = 18.2(T_a/P_a)$ = 5.4

Manometer reading before calibration: 5.1
Adjustment of flow controller (Y/N): Y
Manometer reading after calibration: 5.4

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:	EG	Site No.:	AM 2
Date of visit:	16-9-2004	Hour of Visit:	10:45
Staff name:	W L MAK	HVAS S/N:	2195
Used filter paper no.:	LR40	New filter paper no.:	LR42
Type of filter:	Glass-fibre		

I. Ambient Conditions

Temperature, T_a = 273 + 35.7 / 308.7 K Pressure, P_a = 1018 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)	$\triangle H_a = 18.2(T_a/P_a)$ = 5.51

Manometer reading before calibration: 5.50
Adjustment of flow controller (Y/N): N
Manometer reading after calibration: 5.50

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

MINI VOLUME AIR SAMPLER

SITE VISIT LOG SHEET

Site Name:	ASH LAGOON	Site No.:	AM 3
Date of visit:	3 - 9 - 2004	Hour of Visit:	1300
Staff name:	W L MAK	MINIVOL S/N:	3393 BATTERY 1721
Used filter paper no.:	/	New filter paper no.:	MG 95

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

_____ ~~Before~~ 5008 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

New mini-volume in use elapse timer 270 HR

PARTISOL TSP SAMPLER
SITE VISIT LOG SHEET

Site Name: ASH LAGOON Site Number: Ath 3

Date of Visit: 20-9-04 Hour of Visit: 11:40

Staff Name: W.L. MAK/H.K TSANG Partisol S/N: 2000B2055 00001

Used Filter No.: Pc16 New Filter No.: Pc17

Ambient temperature: 30.5 Ambient pressure: 1010

I. General Services

1. Replace control unit Large In-line Filter ✓
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 ± 2°C)**

30.5 °C Calibration: **Y / N** 30.5 °C
Before After

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

1.001 (atm) mbar Calibration: **Y / N** 1010 mbar
Before After

3. Flow Check **(16.7± 1.1 litre/min)**

16.70 l/min Calibration: **Y / N** 16.67 l/min
Before After

III. Remarks

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MINI VOLUME AIR SAMPLER

SITE VISIT LOG SHEET

Site Name:	TYV	Site No.:	AM4
Date of visit:	16-9-04	Hour of Visit:	11:00
Staff name:	M.K. TSANG	MINIVOL S/N:	903
Used filter paper no.:	MG98	New filter paper no.:	MH00

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

4970 Before 5.000 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: X
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 : September 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)
3/9/2004	262.74	0.029	4	1.00	15.66
9/9/2004	262.33	0.037	4	1.00	15.66
15/9/2004	262.09	0.075	4	1.00	15.67
21/9/2004	262.11	0.039	4	1.00	15.67
27/9/2004	261.91	0.064	4	1.00	15.66

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)
3/9/2004	246.68	0.044	4	1.00	15.64
9/9/2004	246.47	0.037	4	1.00	15.65
15/9/2004	246.08	0.053	4	0.99	15.64
21/9/2004	245.84	0.037	4	0.99	15.64
27/9/2004	248.13	0.049	4	1.00	15.65

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)
3/9/2004	254.60	0.032	4	0.99	15.64
9/9/2004	254.40	0.038	4	0.98	15.66
15/9/2004	253.99	0.032	4	1.00	15.62
21/9/2004	253.74	0.030	4	0.99	15.64
27/9/2004	253.44	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 : Alex

Checked by : Ken

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

Location ~~Ash Lagoon~~/Ching Lam*

Date 15-9-2004 Time 11:00

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

Serial Number ~~00111465~~/~~00111466~~/~~00111467~~/~~2343838~~/2356907*

Staff Attended W. L. MAK

1. Calibration

Acoustic calibrator used	Rion NC-74
Calibration level before adjustment (dB(A))	94.2
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 16-9-04 Time 11:40

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

Serial Number 00111465/~~00111466/00111467/2343838/2356907*~~

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. S~~trong wind/breeze~~/calm*

3. Remark/Observation

Note: * - Please delete where inappropriate

Equipment Calibration Record for September 2004

Site: Civil works for 275kV Cable Route from Lamma Island to Cyberport

Noise Equipment Used: RION NL-31
Calibrator Used: RION NC-74

Measurement Location: N4 – Pak Kok Tsui No. 2

Date	Calibration Level before Measurement (dB(A))	Calibration Level after Measurement (dB(A))	Calibrated by
2004/9/3	94.0	94.0	Anthony Wong
2004/9/7	94.0	94.0	Anthony Wong
2004/9/10	94.0	94.0	Anthony Wong
2004/9/14	94.0	94.0	Anthony Wong
2004/9/17	94.0	94.0	Anthony Wong
2004/9/21	94.0	94.0	Anthony Wong
2004/9/24	94.0	94.0	Anthony Wong
2004/9/28	94.0	94.0	Anthony Wong

Measurement Location: N5 – Pak Kok Tsui No. 8

Date	Calibration Level before Measurement (dB(A))	Calibration Level after Measurement (dB(A))	Calibrated by
2004/9/3	94.0	94.0	Anthony Wong
2004/9/7	94.0	94.0	Anthony Wong
2004/9/10	94.0	94.0	Anthony Wong
2004/9/14	94.0	94.0	Anthony Wong
2004/9/17	94.0	94.0	Anthony Wong
2004/9/21	94.0	94.0	Anthony Wong
2004/9/24	94.0	94.0	Anthony Wong
2004/9/28	94.0	94.0	Anthony Wong

Note: Measurement accepted as valid only if the calibration levels from before and after the noise measurement agreed to within 1.0 dB