Appendix F

The QA/QC Procedures and Results

HIGH VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name:	R.T	Site No.:	AM1
Date of visit:	16-3-06	Hour of Visit:	10:00
Staff name:	H.K. TSANG	HVAS S/N:	2198
Used filter paper no.:	LT 27	New filter paper no.:	LT 29
Type of filter:	Glass-fibre		

I. Ambient Conditions

Temperature, T_a = 22.6+273 = 295.6 K Pressure, P_a = 1010 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)
1535(09/2005)	$\Delta H_a = 19.29(T_a/P_a)$ = 5.65

Manometer reading before calibration: 6.0
Adjustment of flow controller (Y/N): Y
Manometer reading after calibration: 5.7

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

File Name: C:\monitor\ambient\hvprical\HVASCAL05.doc

HIGH VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name:	E.G	Site No.:	AM2
Date of visit:	16-3-06	Hour of Visit:	15:10
Staff name:	H.K.TSANG	HVAS S/N:	2195
Used filter paper no.:	LT 28	New filter paper no.:	LT30
Type of filter:	Glass-fibre		

I. Ambient Conditions

Temperature, T_a = 24+273 297 K Pressure, P_a = 1010 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)
1535(09/2005)	$\Delta H_a = 19.29(T_a/P_a)$ = 5.67

Manometer reading before calibration: 5.6
Adjustment of flow controller (Y/N): N
Manometer reading after calibration: 5.6

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

File Name: C:\monitor\ambient\hvprical\HVASCAL05.doc

PARTISOL TSP SAMPLER
SITE VISIT LOG SHEET

Site Name: Ash Lafoon Site Number: AM3

Date of Visit: 10-3-06 Hour of Visit: 10:30

Staff Name: Wk MAK, H.K.ISAAC Partisol S/N: 2000B2673304 10

Used Filter No.: PD10 New Filter No.: PD11

Ambient temperature: 20°C Ambient pressure: 1010 mbar

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 ✓
5. Clean / Replace piston ×

II. Operational Audits (3 months interval as recommended by manufacturer)

1. Temperature Check **(Ambient temperature ± 2°C)**

21 °C Calibration: **Y** / **(N)** 21 °C
Before After

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

1016 mbar Calibration: **Y** / **(N)** 1016 mbar
Before After

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

16.8 l/min Calibration: **Y** / **(N)** 16.8 l/min
Before After

III. Remarks

_____

_____

_____

_____

MINI VOLUME AIR SAMPLER

SITE VISIT LOG SHEET

Site Name: TYV Site No.: AM4

Date of visit: 16-3-06 Hour of Visit: 16:10

Staff name: H.K TSANG MINIVOL S/N: 3393

Used filter paper no.: MH95 New filter paper no.: MH96

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

5.0 Before 5.0 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 : March Year : 2006

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)
3/3/2006	257.15	0.032	4	1.00	15.68
9/3/2006	256.86	0.050	4	1.00	15.68
15/3/2006	256.61	0.044	4	1.00	15.68
21/3/2006	256.01	0.021	4	1.00	15.68
27/3/2006	255.77	0.057	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)
3/3/2006	245.52	0.054	4	0.99	15.64
9/3/2006	245.23	0.042	4	0.99	15.62
15/3/2006	244.99	0.023	4	0.99	15.62
21/3/2006	244.40	0.055	4	0.99	15.64
27/3/2006	244.15	0.043	4	0.99	15.63

Ash Lagoon (AM3)					
Date	Frequency (Hz) (240 – 270)	Noise (< 0.1)	Operation Mode (Mode 4)	Main Flow (l/min) (0.94 – 1.06)	Aux. Flow (l/min) (14.67 – 16.67)
3/3/2006	247.68	0.061	4	0.99	15.67
9/3/2006	247.43	0.042	4	1.00	15.20
15/3/2006	248.01	0.030	4	1.00	15.66
21/3/2006	247.64	0.037	4	1.00	15.67
27/3/2006	247.42	0.035	4	1.00	15.68

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 : _____

Checked by : _____

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

Location Ash Lagoon/~~Ching Lam*~~

Date 14-3-06 Time 16:00

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. ~~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 20-3-06 Time 10:30

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

3. Remark/Observation

Note: * - Please delete where inappropriate

Equipment Calibration Record for March 2006

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
03/03/2006	94.0	94.0	C K Law
07/03/2006	94.0	94.0	C K Law
10/03/2006	94.0	94.0	C K Law
14/03/2006	94.0	94.0	C K Law
17/03/2006	94.0	94.0	C K Law
21/03/2006	94.0	94.0	C K Law
24/03/2006	94.0	94.0	C K Law
28/03/2006	94.0	94.0	C K Law
31/03/2006	94.0	94.0	C K Law

Measurement Location: N5 – Pak Kok Tsui No. 8

Date	Calibration Level before Measurement (dB(A))	Calibration Level after Measurement (dB(A))	Calibrated by
03/03/2006	94.0	94.0	C K Law
07/03/2006	94.0	94.0	C K Law
10/03/2006	94.0	94.0	C K Law
14/03/2006	94.0	94.0	C K Law
17/03/2006	94.0	94.0	C K Law
21/03/2006	94.0	94.0	C K Law
24/03/2006	94.0	94.0	C K Law
28/03/2006	94.0	94.0	C K Law
31/03/2006	94.0	94.0	C K Law

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