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:	12-10-05	Hour of Visit:	11:40
Staff name:	MAK, Fai.	HVAS S/N:	2198
Used filter paper no.:	LS72	New filter paper no.:	LS74
Type of filter:	Glass-fibre		

I. Ambient Conditions

Temperature, T_a = $\frac{30.3 + 273}{303.3}$ K Pressure, P_a = 1001 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)	$\triangle H_a = 19.29(T_a/P_a)$ = 5.8

Manometer reading before calibration: 6.1
Adjustment of flow controller (Y/N): Y
Manometer reading after calibration: 5.8

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:	12/10/05	Hour of Visit:	11:40
Staff name:	MAK, Fai	HVAS S/N:	2195
Used filter paper no.:	LS 73	New filter paper no.:	LS 75
Type of filter:	Glass-fibre		

I. Ambient Conditions

Temperature, T_a = 30.6+273 = 303.6 K Pressure, P_a = 1014 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)	$\triangle H_a = 19.29(T_a/P_a)$ = 5.78

Manometer reading before calibration: 5.8
Adjustment of flow controller (Y/N): N
Manometer reading after calibration: 5.8

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 LAGOON Site Number: AM 3

Date of Visit: 12 - 10 - 2005 Hour of Visit: 10 20

Staff Name: W. L. MAK/HK TSANG Partisol S/N: 2000B20755C410

Used Filter No.: PC 81 New Filter No.: PC82

Ambient temperature: 30.0 Ambient pressure: 1012

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 ± 2°C)**

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

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

   0.997 ~~mbar~~ Before Calibration: **Y / N** _____ mbar After

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

   _____ l/min Before Calibration: **Y / N** _____ l/min After

III. Remarks

_____

_____

_____

_____

MINI VOLUME AIR SAMPLER

SITE VISIT LOG SHEET

Site Name: TY U Site No.: AM4

Date of visit: 12-10-2001 Hour of Visit: 09:30

Staff name: K. F Chan MINIVOL S/N: 3393

Used filter paper no.: MH67 New filter paper no.: MH68

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

5.081 Before 5.020 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 : October Year : 2005

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)
4/10/2005	256.23	0.041	4	1.00	15.68
10/10/2005	256.07	0.047	4	1.00	15.68
16/10/2005	255.85	0.055	4	1.00	15.68
22/10/2005	255.35	0.030	4	1.00	15.68
28/10/2005	254.86	0.036	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)
4/10/2005	245.78	0.031	4	0.99	15.63
10/10/2005	245.30	0.063	4	0.99	15.64
16/10/2005	245.14	0.041	4	0.99	15.64
22/10/2005	244.65	0.034	4	1.00	15.63
28/10/2005	245.14	0.039	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)
4/10/2005	256.51	0.042	4	1.00	15.69
10/10/2005	256.39	0.040	4	1.00	15.70
16/10/2005	256.17	0.046	4	1.00	15.70
22/10/2005	255.58	0.047	4	1.00	15.69
28/10/2005	254.94	0.030	4	1.00	15.69

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 :

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

Location Ash Lagoon/~~Ching Lam*~~

Date 17 - 10 - 2005 Time 11:60

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)) 94.0

   Calibration level after adjustment (dB(A)) 94

2. Weather Conditions

   a. Sunny/~~fine~~/c~~loudy~~/~~showery~~/~~heavy rain~~*

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

3. Remark/Observation

Note: * - Please delete where inappropriate

18/5/2004

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

Location ~~Ash Lagoon~~/Ching Lam*

Date 20-10-05 Time 16:10

Equipment ~~Rion NA-2~~7/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

18/5/2004

Equipment Calibration Record for October 2005

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

Noise Equipment Used: ACO TYPE 6224 (*) / RION NL – 31 (#)

Calibrator Used: ACO TYPE 2126 (*) / 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
04/10/2005(*)	94.0	94.0	Anthony Wong
07/10/2005(*)	94.0	94.0	Anthony Wong
10/10/2005(*)	94.0	94.0	Anthony Wong
14/10/2005(*)	94.0	94.0	Anthony Wong
18/10/2005(*)	94.0	94.0	Anthony Wong
21/10/2005(*)	94.0	94.0	Anthony Wong
25/10/2005(#)	94.0	94.0	Anthony Wong
28/10/2005(#)	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
04/10/2005(*)	94.0	94.0	Anthony Wong
07/10/2005(*)	94.0	94.0	Anthony Wong
10/10/2005(*)	94.0	94.0	Anthony Wong
14/10/2005(*)	94.0	94.0	Anthony Wong
18/10/2005(*)	94.0	94.0	Anthony Wong
21/10/2005(*)	94.0	94.0	Anthony Wong
25/10/2005(#)	94.0	94.0	Anthony Wong
28/10/2005(#)	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.