

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: 14/7/2003 Hour of Visit: 11 20
 Staff name: W. L. MAK HVAS S/N: 2198
 Used filter paper no.: LP88 New filter paper no.: LP90
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = \frac{273 + 30.1}{303.1}$ K Pressure, $P_a = 1005$ mb

II. Correction of manometer reading

| Calibration orifice No. | Manometer reading at site conditions corresponds to $Q_{STD} = 40$ ft ³ /min. (inch H ₂ O) |
|-------------------------|--|
| ✓ 1534(04/2002) | $\Delta H_a = 18.0(T_a/P_a) = 5.43$ |
| 1535(04/2002) | $\Delta H_a = 17.9(T_a/P_a) = \underline{\hspace{2cm}}$ |

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 ft³/min. Corresponding limits for manometer : ± 0.2 inch H₂O

III. General Conditions of HVAS

IV. Remarks

HIGH VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name: E6 Site No.: AH2
 Date of visit: 14/7/2003 Hour of Visit: 1140
 Staff name: W. LMAK HVAS S/N: 2195
 Used filter paper no.: LP89 New filter paper no.: LP91
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = \frac{273 + 34.1}{307.1}$ 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 ₂ O) |
|-------------------------|--|
| ✓ 1534(04/2002) | $\Delta H_a = 18.0(T_a/P_a) = 5.467$ |
| 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): Y
 Manometer reading after calibration: 5.50

Note: Tolerance Limit of HVAS flow: ± 1.0 ft³/min. Corresponding limits for manometer : ± 0.2 inch H₂O

III. General Conditions of HVAS

IV. Remarks

PARTISOL TSP SAMPLER
SITE VISIT LOG SHEET

Site Name: Ash Lagoon Site Number: AM3
Date of Visit: 14/7/2003 Hour of Visit: 10:00
Staff Name: W. L. MAK Partisol S/N: 2000B2051001
Used Filter No.: PB44 New Filter No.: PB45
Ambient temperature: 30° Ambient pressure: 1003

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 ✓
5. Clean / ~~Replace~~ piston ✓

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

1. Temperature Check (Ambient temperature $\pm 2^\circ\text{C}$)

30° °C Before Calibration: Y / (N) 30° °C After

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

1013 mbar Before Calibration: Y / (N) 1013 mbar After

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

16.6 l/min Before Calibration: Y / (N) 16.6 l/min After

III. Remarks

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

Month : July

Year : 2003

| 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) |
| 5-7-03 | 256.05 | 0.023 | 4 | 1.00 | 15.68 |
| 11-7-03 | 255.99 | 0.030 | 4 | 1.00 | 15.67 |
| 17-7-03 | 255.91 | 0.033 | 4 | 1.00 | 15.68 |
| 23-7-03 | 255.81 | 0.039 | 4 | 1.00 | 15.68 |
| 29-7-03 | 255.70 | 0.047 | 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) |
| 5-7-03 | 247.63 | 0.031 | 4 | 1.00 | 15.63 |
| 11-7-03 | 247.54 | 0.043 | 4 | 1.00 | 15.63 |
| 17-7-03 | 247.41 | 0.049 | 4 | 1.00 | 15.63 |
| 23-7-03 | 247.26 | 0.049 | 4 | 1.00 | 15.64 |
| 29-7-03 | 249.18 | 0.021 | 4 | 1.00 | 15.63 |

| 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) |
| 1-7-03 | 255.78 | 0.038 | 4 | 0.99 | 15.64 |
| 11-7-03 | 255.73 | 0.030 | 4 | 0.99 | 15.64 |
| 17-7-03 | 255.66 | 0.027 | 4 | 1.00 | 15.63 |
| 23-7-03 | 257.96 | 0.031 | 4 | 1.00 | 15.64 |
| 29-7-03 | 257.83 | 0.026 | 4 | 0.99 | 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 : Cal

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

Location Ash Lagoon/~~Ching Lam*~~

Date 18-7-2003 Time 14:00

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)) 93.9

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