

AQSB MONTHLY QUALITY CONTROL MAINTENANCE CHECK SHEET
Model 3781 Water-based Condensation Particle Counter (WCPC)

Site Name: _____ Month/Year: _____
 Site Number: _____ Sampler Make & Model: _____
 Operator/Agency: _____ Sampler ID Number: _____
 Date of Last Calibration: _____

Instrument Checks:

- 1) Daily checks: Review station data logger values for correct operational status of the WCPC.
Check water level of source water bottle.
- 2) Bi-Weekly Checks: Perform Model 3781 WCPC flow check. Download data.
- 3) Monthly checks: Complete and submit this Monthly Quality Control Check Sheet.
Thoroughly clean Model 3781 WCPC inlets.
Download and submit data from Model 3781 WCPC data logger.
- 4) Three month Checks: Install a new wick in the 3781 WCPC a minimum of every three months.
- 5) Semi-Annual Checks: Calibrate WCPC flow with station semi-annual checks

Sampler Flow Rate Check Results:

	Flow Rate Standard		
Standard Make/Model:			
Std. ARB ID Number:			
Std. Certification Date:			
Standard Slope:			
Standard Intercept:			
Date Checked:			
Std. Display Reading:			
Std. 'Actual' Reading:			
Model 3781 WCPC Display:			
Design Flow % Diff.:			

Standard Flow Acceptance Criteria: Last Wick Change _____
 Lifting the Transport Bypass flow lever, the indicated flow value should be 0.12 L/min \pm ~5% (0.114 - 0.126L/min).
 The total inlet flow can be checked by releasing the Transport Bypass flow lever and the flow meter reading should be 0.6 L/min \pm 15% (0.51 – 0.69 L/min).

Operator Comments:

Reviewed by _____