Weight Performance Check

Expected Weight					
Weight Serial Number or Identifier					
"As left" value from last external calibration certificate					
Traceable Report Number					
Balance used					
Replicate 1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
Replicate Average					
% Recovery [1]					
Standard Deviation					
Coefficient of Variation					
*Acceptable for Use?					

Analyst:_____ Date: _____
Reviewed by:_____ Date:_____

Note: Any weight which is determined to be unacceptable for use will be immediately taken out of service and reported to the Unit Lead.

*Acceptability criteria % recovery (98-102%) SD, <1, Coefficient of Variation <3%

1. Percent Recovery: (average/expected value)*100

[1] For expected value use "as left" value from certificate

2. Standard Deviation:
$$\sigma = \sqrt{E((X - E(X))^2)} = \sqrt{E(X^2) - (E(X))^2}$$

3. Coefficient of Variation: $V = (\sigma / \text{average value})*100$

If an excel spreadsheet is used to calculate the %Recovery, SD or Coefficient of Variation attach a copy of the spreadsheet for the reviewer.

File this completed form in the Unit Log Book for the weights.