

**TABLE A-18**

Quality Control Acceptance Criteria for Method SW9060 (Modified)— Total Organic Carbon

<b>RL - Water = 1.0 mg/L</b> <b>Accuracy Water (% R) = 80 - 120</b> <b>Precision Water (RPD) = ±20</b>	<b>RL - Soil = 5.0 mg/Kg</b> <b>Accuracy Soil (% R) = 75 - 125</b> <b>Precision Soil (RPD) = ±20</b>
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QC Check	Minimum Frequency	Acceptance Criteria	Corrective Action <sup>a</sup>	Flagging Criteria <sup>b</sup>
Initial Calibration - single or multi-point calibration depending on manufacturer's recommendation for instrumentation.	Daily before analysis	For multi-point calibration curve, regression criteria of , $r > 0.995$ MUST be met prior to sample analysis.	For single point - repeat initial. For multi-point calibration, identify and repeat outlying point(s); recalculate curve using repeated point(s).	Apply R to all results for specific analyte(s) for all samples associated with the calibration
Initial calibration verification (ICV)	After Calibration	Response within ±10%.	Identify and correct problem. Recalibrate	Apply J to positive results and UJ to non-detects for all results for specific analyte(s) for all samples associated with the calibration
Initial Calibration Blank (ICB)	One per Initial calibration	<RL	Correct problem then reanalyze ICV and ICB in sequence.	Apply U to all results for the specific analyte(s) in all samples in the associated analytical batch whose concentration is less than 5 times the blank concentration.
Continuing calibration verification (CCV)	After every 10 samples and at the end of the analysis sequence	Response within ±10%.	1) Repeat continuing calibration verification (CCV). 2) If still out, identify and correct problem. 3) Recalibrate and reanalyze all samples.	Apply J to positive results and UJ to non-detects for all results for specific analyte(s) for all samples associated with the calibration
Continuing Calibration Blank	One per preparation and analytical batch	<RL	Correct problem then reanalyze CCV and CCB and all samples associated with the contaminated blank	Apply U to all results for the specific analyte(s) in all samples in the associated analytical batch whose concentration is less than 5 times the blank concentration.
Laboratory Control Sample (LCS)	One per every 20 samples or analysis batch whichever is the	80-120%	Correct problem and reanalyze the LCS and all samples in the affected analytical batch	For specific analyte(s) in all samples in the associated analytical batch: if the LCS %R > UCL, apply J to all positive results if the LCS %R < LCL, apply J to all positive results, apply UJ to all non-detects. If LCS < 50%, R flag results.
MS/MSD	One MS/MSD per every 40 samples.	QC acceptance criteria in this table.	None	For specific analyte in all samples in the associated analytical batch: if the MS/MSD is > UCL, J all hits; if < LCL but greater than 30%, J all hits, UJ all non-detects. If < 30%, R all non-detects and J all hits. If precision outside criteria, J all hits, UJ all non-detects.
MDL study	Once per year	Detection limits established shall be < the RLs in this table.	None	Apply R to all results for the specific analyte(s) in all samples analyzed

<sup>a</sup> All corrective actions associated with project work shall be documented, and all records shall be maintained by the laboratory.

<sup>b</sup> Flagging criteria are applied when acceptance criteria were not met and corrective action was not successful or corrective action was not performed.