

## Method Abstract #138

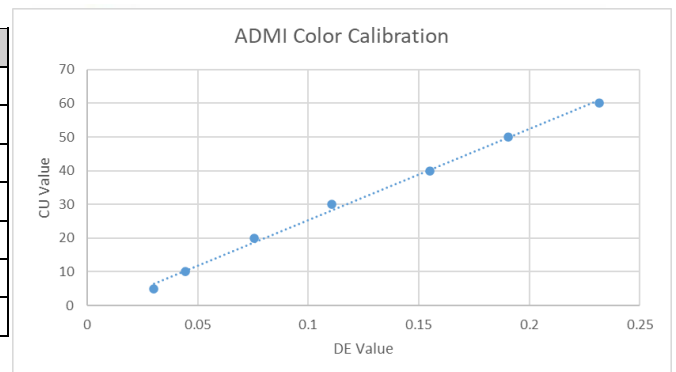
### Color by ADMI Weighted-Ordinate Method

**Scope and Application** This method conforms to Standard Method 2120 F and EPA Method 110.3. It determines the color units (CU) where 1 CU equals 1ppm of platinum. ADMI value is equivalent to CU taking the full spectrum into consideration. Color is used as a general indicator of the quality of water.

**Method Summary** This method employs an industry leading spectrophotometer completely controlled by the MANTECH software including automated calibrations and audit trail. Transmittance is measured at 30 different wavelengths and calculations are performed to determine a single value which is compared against a Pt-Co calibration curve.

#### Sample Calibration Curve

Standard	DE Value
5 CU	0.0302
10 CU	0.0444
20 CU	0.0755
30 CU	0.1105
40 CU	0.1551
50 CU	0.1903
60 CU	0.2316



#### Method Performance

Parameter	Specification
Measuring Range	0.10 – 500 CU
MDL*	1.00 CU
RSD @ 2 CU	5.72% or +/- 0.11 CU
RSD @ 5 CU	1.70% or +/- 0.08 CU
RSD @ 10 CU	1.04% or +/- 0.10 CU
RSD @ 50 CU	0.47% or +/- 0.24 CU
RSD @ 100 CU	0.19% or +/- 0.19 CU

\*The Method Detection Limit (MDL) was determined based on data obtaining a coefficient of variance better than 30%. Results may differ depending on laboratory practices and sample matrix