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ECO CDOM Fluorometer Characterization Sheet

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S/N: BBFL2IRB-1405

CDOM concentration expressed in ppb can be derived using the equation:

$$\text{CDOM (ppb)} = \text{Scale Factor} * (\text{Output} - \text{Dark Counts})$$

| | |
|---|-----------------------------|
| Dark Counts | Digital 47 counts |
| Scale Factor (SF) | 0.0911 ppb/count |
| Maximum Output | 4130 counts |
| Resolution | 1.0 counts |
| Ambient temperature during characterization | 23.2 °C |

Dark Counts: Signal output of the meter in clean water with black tape over detector.

SF: Determined using the following equation: $SF = x \div (\text{output} - \text{dark counts})$, where x is the concentration of the solution used during instrument characterization. SF is used to derive instrument output concentration from the raw signal output of the fluorometer.

Maximum Output: Maximum signal output the fluorometer is capable of.

Resolution: Standard deviation of 1 minute of collected data.