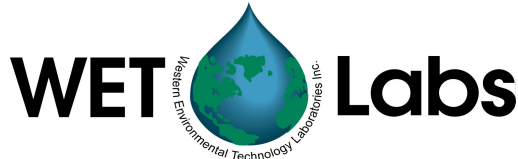


PO Box 518  
620 Applegate St.  
Philomath, OR 97370



(541) 929-5650  
Fax (541) 929-5277  
[www.wetlabs.com](http://www.wetlabs.com)

## ECO CDOM Fluorometer Characterization Sheet

Date: 2/15/2005

Customer: Mary Jane Perry

Job #: 501013

S/N#: **FL3-302**

CDOM (Quinine Dihydrate Equivalent) concentration expressed in ppb can be derived using the equation:

$$\text{CDOM (QSDE)} = \text{Scale Factor} * (\text{Output} - \text{Clean Water Offset})$$

<b>Clean Water Offset (CWO)</b>	<b>Digital</b> 77 counts
<b>Scale Factor (SF)</b>	0.0911 ppb/count
<b>Maximum Output</b>	4120 counts
<b>Resolution</b>	1.4 counts
Ambient temperature during characterization	23.3 °C

**CWO:** Clean Water Offset value obtained using pure filtered de-ionized water.

**SF:** Determined using the following equation:  $SF = x \div (\text{output} - \text{CWO})$ , 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.