CTD #2?

WETSTAR Characterization

Job #: 9907002
Serial #: WS3S-566P
Date: 07/15/99

SHORT TERM NOISE: **.048 mV**

Standard deviation of voltage output with air in the instrument's flow tube. Samples taken at a one second interval over approximately thirty seconds.

LONG TERM STABILITY: **.514 mV/Hour**

Deviation of voltage output over a twelve hour period with air in the flow tube. Five samples collected per hour. Ambient temperature is constant.

FULL SCALE VOLTAGE: **5.12259 Volts**

TEMPERATURE STABILITY: **64.0 mV @ 24 °C**
54.0 mV @ 2 °C

Voltage output of the instrument with water in the flowtubes. Instrument is placed in a water bath and the ambient temperature is recorded.

INSTRUMENT RESPONSE:

Pure water: **.063 Volts**
$[copro.]_1$ = **.5 mg/l** **3.056 Volts**

Voltage output of the instrument with sample in the flow tube. The output is average voltage over thirty second interval, one sample per second. [copro.] refers to coproporphyrin tetramethyl ester concentration.

Note: .5 mg/l of copro. is approximately equal to 50 ug/l of chlorophyll in a Thalassiosira weissflogii phytoplankton culture.

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