

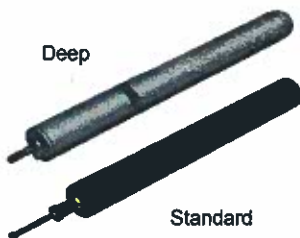
SAT-QR-95007 (v 1.0.9)

SATLANTIC

Verification Checklist

Submersible Ultraviolet Nitrate Analyzer (SUNA)

Serial Number: 522 TDP: _____ Firmware: 24.0 Software: 3.0.10
 Project Number: 2014-8103 Model: Standard ☒ Deep ☐
 Path Length: 10 mm ☒ 5 mm ☐
 Calibration: Freshwater ☐ Seawater ☒
 Options: Analog Out ☐ SDI-12 ☐
 USB ☒ Data Logging ☒
 APF Interface ☐ Scheduling ☒
 Power Relay ☐ Integrated Wiper ☒
 Glider Mounting ☐
 Accessories: Cables ☒ Flow Cell ☐
 Pump ☐ Foul Guard ☐
 Profiling Float Kit ☐ External Wiper ☐



☒ Calibration Freshwater ☐ Seawater ☒ Custom ☐ Date: 10/11/2014
☒ Pressure Test Rated to: 150 psig
☒ Performance Dark level: 454 (400-999) Std.-dev.: 8 (< 10)
 Ground fault free ☒ Light max.: 52544 (45-55,000) Power use: 6805 (< 7500 mW)
 Lamp temperature: 27.9 (< 35 C)
 Internal humidity: 5.2 (< 10%)
 Nitrate std.-dev.: 0.19 (< 2 µM)

	DIW	NW	NW+40 µM
Nitrate [µM]	<u>0.49</u>	<u>18.22</u>	<u>56.84</u>

☒ Calibration Check Calibration file name SNR0500A Date: 13/11/2014
 Reference update was: not needed ☒ done ☐

	DIW	SW	NO ₃ STD
Nitrate [µM]	<u>0.39</u>	<u>1.64</u>	<u>40.58</u>
	0 ± 2 µM	0 ± 2 µM	40 ± 4 µM

	DIW	SW	NO ₃ STD
V [V]	<u>0.353</u>	<u>0.384</u>	<u>1.86</u>
I [mA]	<u>4.83</u>	<u>4.99</u>	<u>10.94</u>

(Not useable for analog calibration)

☒ Configuration Analog Out: OK ☒ N/A ☒ SDI-12: OK ☒ N/A ☒
 USB: OK ☒ N/A ☒ Data Logging: OK ☒ N/A ☒
 Standard configuration ☒ APF Interface: OK ☒ N/A ☒ Scheduling: OK ☒ N/A ☒
 Clock synchronization ☒ Power Relay: OK ☒ N/A ☒ Integrated Wiper: OK ☒ N/A ☒

☒ Accessories Check Cables: OK ☒ N/A ☒ Flow Cell: Fit ☒ N/A ☒
 Pump: OK ☒ N/A ☒ Foul Guard: Fit ☒ N/A ☒
 Anode installed: OK ☒ N/A ☒ External Wiper: Fit ☒ N/A ☒

☒ Finishing File system cleared ☒ N/A ☒ Custom configuration ☒ N/A ☒
 Summary report filed ☒ Optical surfaces cleaned ☒
 Windows flush ☒

This final inspection and verification of the SUNA is performed after all other work is complete. The inspection is conducted and QA countersigned by qualified Satlantic technicians.

Quality Assurance: DoyleDate: Nov 11 2014