## **Ferry Maintenance Report**

#### Vessel: Queen of Alberni

Date: June 20, 2014

Arrival: 12:45PM sailing to Tsawassen. We signed in at terminal supervisor at Duke Point.

Reporter: Akash Sastri/Chris Sundstrom Staff: Chris Sundstrom, Akash Sastri

#### **Reason for Visit**

Regular instrument servicing

### Observations

- 1. There was negligible moisture and no signs of leaks In the Instrument Box.
- 2. Hoses from manifold to instruments were clear but noted level of fouling will require replacement for the next scheduled trip (July 4, 2014).
- 3. Minor sedimentation in the Seabird 45 CT sensor unit.
- 4. Very minor sedimentation in the optode housing
- 5. Medium to high biological material and biofouling of the BBFL2.
- The sea chest showed no signs of leaks and sea strainer was relatively free of accumulated material.

### **Actions Taken**

- 1. Opened both boxes and observed function. Both were working well, no leaks anywhere.
- 2. Powered down and disassembled instruments in lower assembly.
- 3. Cleaned and checked over instruments in engineering room.

- 4. Ran pre- and post- calibration with standard solutions for CDOM fluorescence and Chl fluorescence. We have typically been using diet coke and diluted tonic water as standard solutions for Chl and CDOM fluorescence, respectively. We tested "sprite zero" as an alternative to tonic water on this trip and will do this again on the next maintenance trip.
- 5. Re-assembled the instruments in the lower box..
- 6. Checked over Sea chest and valves, no leaks apparent.
- 7. Checked the sea strainer.
- 8. Turned ON the system..
- Signed out at Engineering room. Note that there was some delay acquiring the key from Engineering as their communications system appeared to be malfunctioning.

# **PICTURES**



Figure 1. Lower instrument box of the seakeeper unit with each of the three instruments visible.



Figure 2. Accumulated biological material along the side of the BBFL2 housing. Note that the unit is positioned to sit in the horizontal and this material is therefore accumulating on the bottom of the housing.



Figure 3. Moderate sedimentation on the optode.



Figure 4. Optode housing relatively clean.



Figure 5. Sea-strainor relatively clean and free of debris.