

**From:** Williams, Brian W (DFW)  
**Sent:** Friday, May 27, 2011 4:01 PM  
**To:** Gray, Melinda; kristie.dunkin@amec.com  
**Cc:** Dewell, Jane (ORA)  
**Subject:** WDFW Comments – Marine biota Baseline Monitoring, May 20, 2011

Melinda,

Here are my comments for the marine baseline sampling plan.

## **WDFW Comments – Marine biota Baseline Monitoring, May 20, 2011**

### **Section 2.1.1.2.2 - Macroalgae**

Section 2.1.1.2.2, paragraph 2, third sentence:

Sampling stations for the macro algae bed should begin at the inner margin of the bed. It is only appropriate for sampling to begin at MLLW if it corresponds to the inner margin of the macro algae bed.

Section 2.1.1.2.2, paragraph 3:

This paragraph states that the statistical design will only be based on the kelp species. The sampling plan and statistical design needs to address both the kelp species and red/green algae species. You will need to revise your sampling strategy to statistically address both. You could combine the kelp and red/green species by using % cover or keep them separate them by using different metrics of presence (holdfast and %cover) and conduct a statistical analysis for each.

Section 2.1.1.2.2, paragraph 4:

The spatial separation between the 7 trestle location transects should be identified.

### **Section 2.3 Geoduck Study Design**

How was a minus 18 determined as the inner limit for the geoduck survey transects?

### **Section 2.4.1.1 – Benthic Invertebrates**

Benthic sampling should identify all of the bivalve species present at the project site.

### **Section 2.4.1.2 Epibenthic Invertebrates**

Your proposed survey methods will only be able to identify macro epibenthic invertebrates. Your sampling plan should state as much.

### **Section 2.5 Forage Fish**

As a reference for you project site samples, it would be helpful for your sampling design to included a reference sample from a beach site adjacent to the project area where surf smelt or sand lance spawn has been historically documented.

**General:**

Your surveys should identify all marine invasive species present at the project site.