**Workgroup #3: Natural Systems**

Climate Change Adaptation: Planning for Climate Change at the Landscape Scale for Clatsop and Tillamook Counties, Oregon. September 16, 2014. Mtg #2.

List of Management Objectives:

Water Supply

* Consider off channel storage to mitigate for low flows when demand is greatest.
* Integrated water management.
* Identify, prioritize, and protect key watersheds/cold water streams.

Habitat fragmentation and loss

* Protect and restore large, less fragmented habitats.
* Identify barriers to dispersal and migration of habitat.
* Buffer zones
* Promote native species and changing habitats.
* Identify and conserve existing high quality intertidal habitat, eelgrass beds, and tidal marshes.
* Restore natural dune systems and conserve land behind them to allow for inland migration.
* Encourage forest practices to maintain healthy forests to reduce sediment transport.
* Explore sediment management strategies (e.g., sediment basins, removal).
* Restore estuaries (e.g., remove dikes, tidegates).
* Discourage development in estuaries and other low lying areas.
* Restore estuaries that provide surge protection for human communities.

Marine food webs

* Decrease other stressors: improve water quality and reduce take.
* Shift fishery.
* Reduce take.
* Implement buffers (e.g., eelgrass beds can raise local pH).

Maladaption

* Add resiliency versus facilitate change?
* Precautionary approach.
* Understand the tradeoff inherent in prioritizing human infrastructure.
* Consider how other communities are responding where change is already occurring (e.g., Humbolt Bay SLR).
* Policy Decisions: How to adapt to change or fight it?

