



Waimea Objectives Framework

Mary-Anne Baker and Lisa McGlinchey

15 September 2014

Outline

- **Objectives agreed – Schedule 30B**
 - Specific for water bodies
 - Variation for with/without dam
 - Deciding on the attributes (group exercise)

Waimea Objectives

- **Water bodies:**

- Aquifers (UCA, LCA, AUGA, Hope-Eastern Hills)
- River
- Coastal spring fed streams (O'Connors, Pearl, Neimann)
- Wairoa, Roding and Lee Rivers
- Coastal Waters in the Waimea Inlet

Sch 30B - Aquifers

Values

- Human consumption
- Aquatic ecosystems
- Irrigation
- Industrial uses
- Community water supply
- Stock and farm water supply

Objectives

(before, until and after dam)

- **Water quality that:**
 - has low risk for drinking water
 - provides for existing aquatic ecosystems in coastal springs
 - meets the needs of abstractive water users

Sch 30B – Waimea River

Values

- Aquatic ecosystems
- Human consumption
- Recreational values
- Stock and farm water supply
- Irrigation
- Cultural and spiritual values

• Objectives (before and until dam):

- Except when step three rationing or water shortage directions are imposed water quality that meets the needs of:
 - aquatic organisms including native fish and trout
 - recreational water users
 - abstractive water users including irrigation and stock water supplies

• Objectives (after dam):

- Water quality that meets the needs of:
 - aquatic organisms including native fish and trout,
 - recreational water users
 - abstractive water users including irrigation and stock water supplies

Sch 30B – Coastal Creeks

Neimann, Pearl and O'Connor Creeks

Values

- Human consumption
- Aquatic ecosystems
- Irrigation
- Industrial uses
- Community water supply
- Stock and farm water supply

Objectives

(before, until and after dam)

Water quality that provides for existing aquatic ecosystems in coastal springs

Sch 30B - Wairoa, Roding and Lee

Values

- Aquatic ecosystems
- Human consumption
- Recreation
- Stock and farm water supply
- Irrigation

Objectives

(before, until and after dam)

- Water quality that meets the needs of:
 - aquatic organisms including native fish and trout,
 - recreational water users,
 - abstractive water users including irrigation and stock water supplies

Sch 30B – Coastal Water in Waimea Inlet

Values

- Aquatic ecosystems
- Recreation
- Landscape Values
- Cultural and spiritual values
- Food gathering

Objectives

(before, until and after dam)

- Water quality that meets the needs of:
 - aquatic organisms
 - recreational water users
 - consumption of shellfish
 - amenity and landscape values

Missing elements

- **Values**

- (white board exercise)

- **Management objectives**

- What do the “values” represent
 - (group exercise)

- **Threats and risk**

- (white board exercise)

Deciding on the attributes – group exercise

- **Spreadsheet -**

- Waimea R water bodies - specified values and objectives for them

Deciding on the attributes – group exercise

- **Spreadsheet -**

- Waimea R water bodies - specified values and objectives for them
- Attributes – what water quality parameter must be managed to ensure management objective is met?

Selecting attributes – Waimea River

Waimea FLAG – Waimea Water bodies Values and Attributes Matrix – Group Session

Waimea Aquifers (AGUA, UCA, LCA) – Water Quality

Note: Underlined values and attributes come from the NPS-FM National Objective Framework and are compulsory values and their associated attributes.

Values	<u>Ecosystem Health & Aquatic Ecosystems</u>	Human Consumption	Community water supply	Stock and Farm Water Supply	Irrigation	Industrial uses
Objectives	Water quality that provides for existing aquatic ecosystems in coastal springs.	Water quality that has low risk for drinking water.		Water quality that meets the needs of abstractive water users.		
Attributes		Water quality that meets the needs of abstractive water users.				

Deciding on the attributes – group exercise

- **Spreadsheet -**

- Waimea water bodies - specified values and objectives for them
- Attributes – what water quality parameter or water body attribute must be managed to ensure management objective is met?

Attribute States

- NOF Bands and SOE traffic light systems
 - *Next steps*