



GREY FMU

Freshwater Management Unit

Grey Māwhera FMU Group

January 2019 Meeting

Meeting Agenda

- ▶ Recap on process so far - standing item
- ▶ Update on outstanding action items
- ▶ Continue attributes discussion
- ▶ Next steps

NPSFM Process Flow Chart

VALUES

The things that people think are important about the water

Help you identify

ATTRIBUTES

The characteristics of the water that need to be managed to provide for each value

Help you choose

FRESHWATER OBJECTIVES

The levels your community want each attribute to reach in the future

Help you set

LIMITS

The maximum amount of resource use that will enable the freshwater objective to be met

Help you determine

METHODS

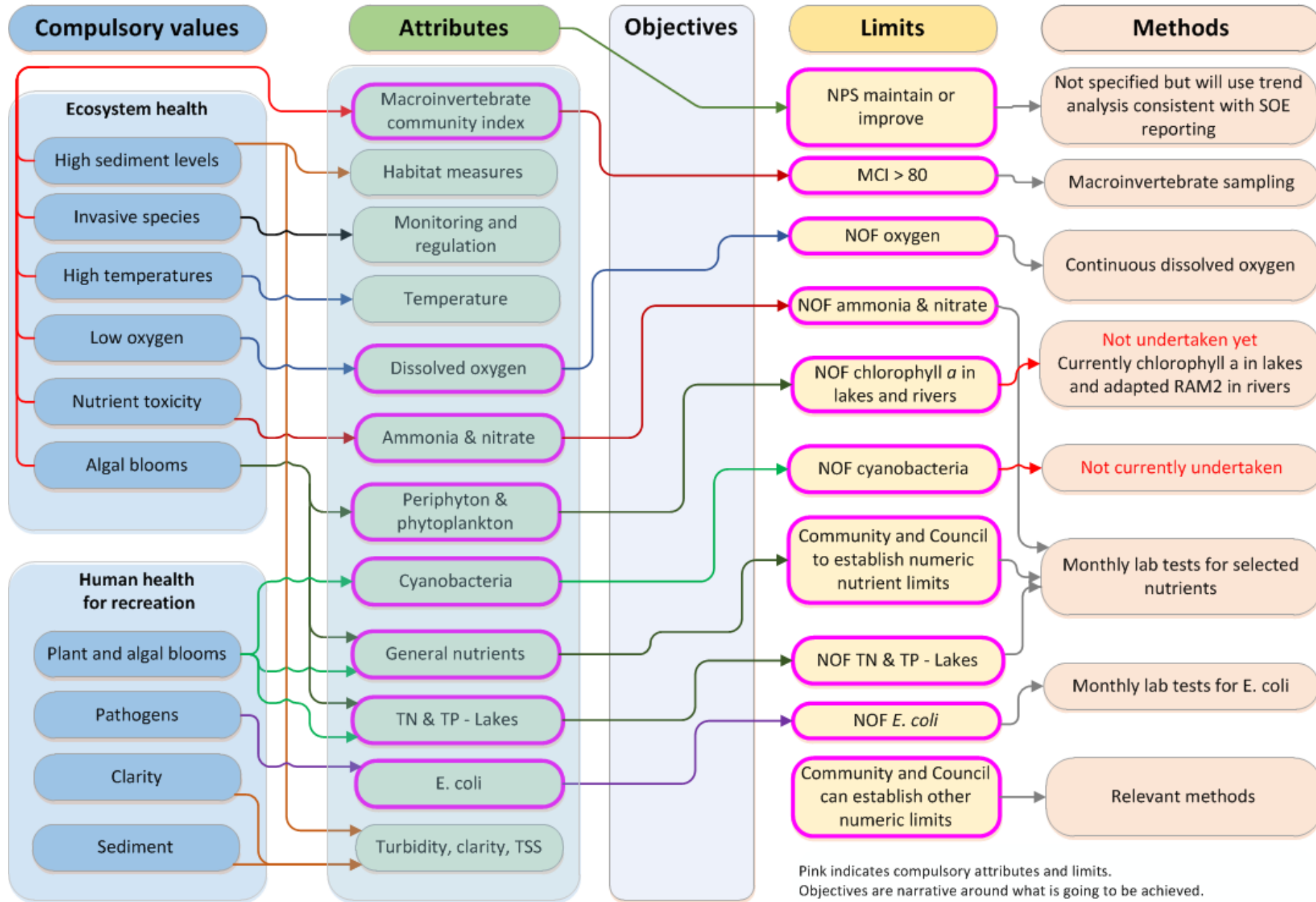
The measures you put in place to ensure the limits and the freshwater objectives are met

Help you provide for

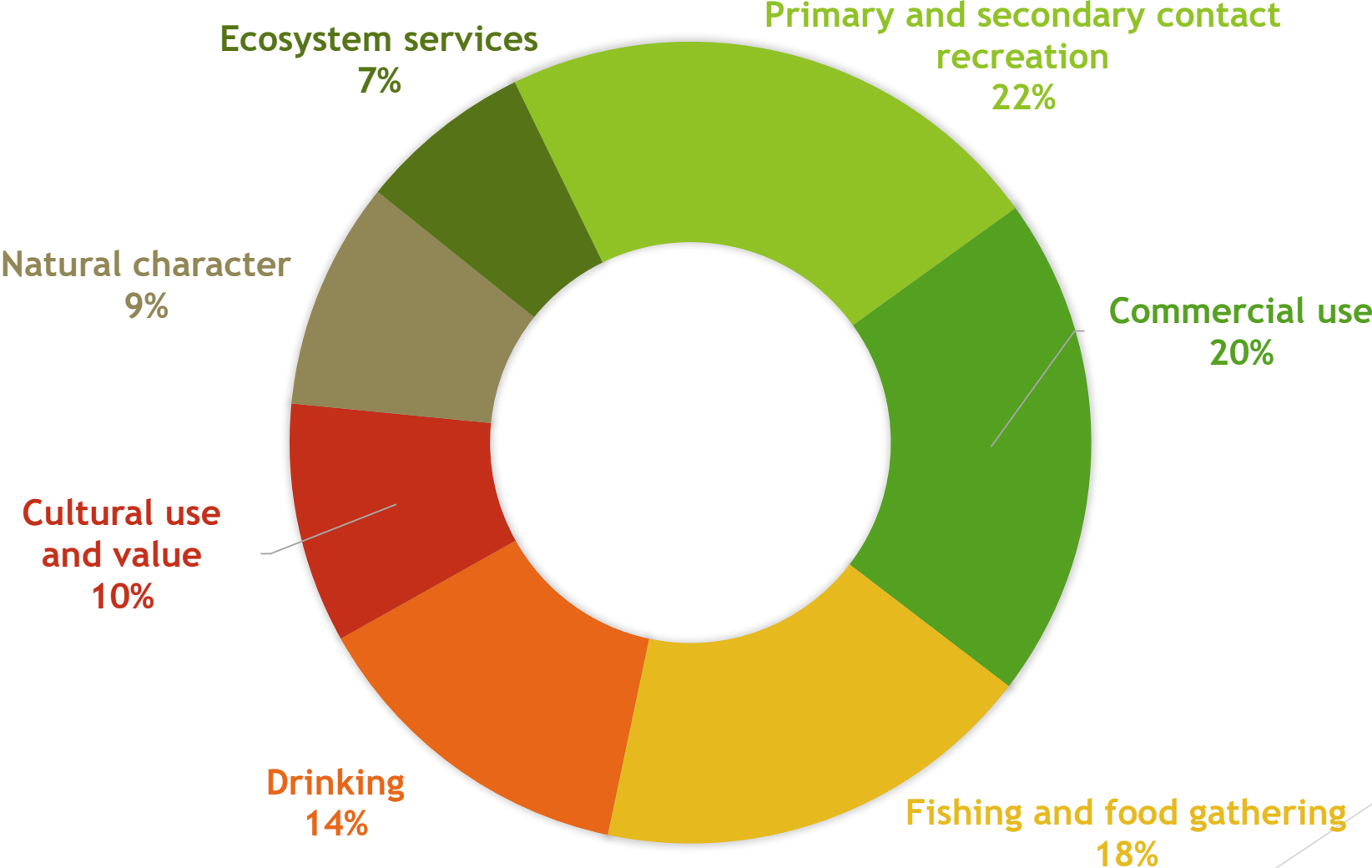
Help you achieve

Help you meet

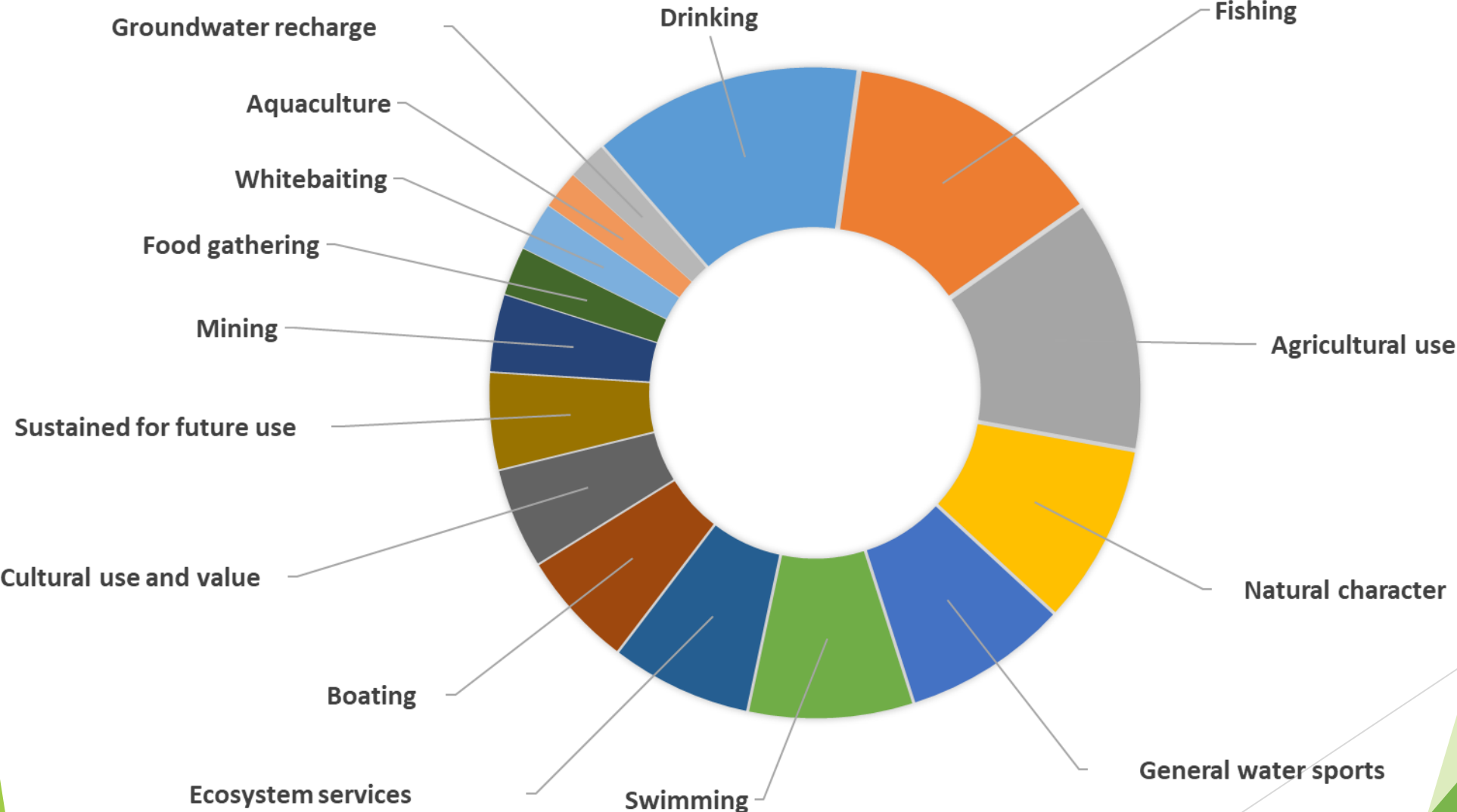
NPSM compulsory values



Grey FMU values - summary



Grey FMU values - detailed list



Grey FMU values & attributes table

Grey FMU values	Quantity	Macroinvertebrate index	Habitat measures	Temperature	Dissolved oxygen	Ammonia and nitrate	Periphyton and phytoplankton	Cyanobacteria	General nutrients	Total nitrogen	E. coli	Turbidity, clarity, and phosphorus in lakes	?????	?????
Agricultural use	x					x	x	x		x	x			
Aquaculture	x		x	x	x	x		x				x		
Groundwater recharge	x													
Mining	x													
Boating	x					x	x	x	x	x	x			
General water sports	x					x	x	x	x	x	x			
Swimming	x					x	x	x	x	x	x			
Drinking					x	x	x	x	x	x	x			
Fishing	x	x	x	x	x	x	x	x	x	x	x	x		
Food gathering			x	x	x	x	x			x	x			
Whitebaiting			x			x	x	x		x	x			
Natural character	x		x			x	x	x	x		x			
Cultural use and value	x	x	x	x	x	x	x	x	x	x	x			
Sustained for future use	x	x	x	x	x	x	x	x	x	x	x			
Ecosystem services	x	x	x	x	x	x	x	x	x	x	x			

► Different terms but overlap between Grey FMU and NPSFM values/objectives

► Attributes apply to multiple values

► Quantity important for commerce

► Additional attributes to cover Grey FMU values ?

Update on action items:

Examples of monitoring being undertaken in other regions and what value is being sought

- ▶ Councils are at different stages of implementation throughout NZ. There are some examples of completed work but many are still to be implemented into plans.
- ▶ Ecan has completed some of their catchment management. An example of one of their completed catchments has been provided as background docs.
- ▶ Northland Regional Council have also completed some catchment plans, with regulatory and non-regulatory measures. An example has been included as background docs.

Continued attributes discussion



Next Steps

- ▶ Next meeting - overview of water quantity attributes (Stefan, 1hour)