













Freshwater Management Units

- FMU terminology from NPS FW
- Range of matters to be considered with FMU
 - Set objectives and limits
 - Identify values (inc. compulsory national values)
 - Able to describe FMU current and future state based on past and future land use intensity
 - Able to account (measure, model or estimate contaminant) loads and sources)
- Discretion as to scale, community values to be managed, accounting

FMU - Guidance, principles, considerations

- Vision and Strategy
 - 'Whole of river approach'
- Simplicity
 - Homogeneity of policy
- Policy
 - Clear objectives
 - Variable rules and other methods depending on community values, land forms, riverine processes (water quality, ecology)
 - Rules and other methods should be practical, implementable and enforceable and FMU scale should enable these factors

FMU - Guidance, principles, considerations

- Other factors
 - Monitoring and evaluation of policy effectiveness
 - Dissolved oxygen monitoring requirements
 - Water quantity links (not mandatory but could be efficiencies)
 - Should cover entire region so overall water quality can be assessed

- Suggest fewer rather than more FMU
- Aim for simplicity add complexity only if necessary

Delineating FMU

- Community of interest
- Iwi boundaries
- Geomorphology or geology
- Catchments (inc. lake catchments)
- Location of monitoring or accounting sites
- Management structures
- Land care groups
- Location of large infrastructure

Proposed options for Waikato FMU

- Four options presented
- Pragmatic judgement
 - Communities of interest
 - Degree of water impoundment
 - Geomorphology
 - Availability of monitoring sites
 - Commonality of management issues
- Lake catchments below NPS FM bottom lines



















