Economics | **Freshwater** | **Coastal ecology** | **Coastal human contact**

More summarised ↓

Informs Objectives s42A report

Informs Objectives and Ecosystem health and water quality policies s42A reports

Informs Objectives and Ecosystem health and water quality policies s42A reports

Informs Objectives s42A report

Economics – David Walker

Affordability of upgrades to the stormwater and wastewater networks associated with the *E. coli* and metals target attribute states

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Freshwater – Dr Michael Greer

Summarises all freshwater ecology and water quality technical evidence

- Outlines background to freshwater attributes
- Identifies current state of freshwater attributes (Table 8.4 and Table 9.2)
- Identifies actions required to achieve TAS
- Assesses whether regulatory provisions are likely to achieve TAS
- Summarises technical work undertaken for PC1
- Responds to key submissions
- Responds to specific questions in s42A report
- Models reductions of *E.coli,* copper and zinc required to achieve TAS

Coastal ecology – Dr Megan Melidonis

Summarises all coastal ecology technical evidence

- Outlines background to coastal ecology attributes
- Identifies current state of coastal ecology attributes
- Assesses whether regulatory provisions are likely to achieve the coastal ecology objectives
- Summarises technical work for PC1
- Examines options for setting sedimentation rate objective for Te Awarua-o-Porirua Harbour and calculating a load reduction achieve this objective
- Outlines ecotoxicological effects of metals in Te Awarua-o-Porirua Harbour
- Responds to key submissions

Coastal human contact – Dr Peter Wilson

Addresses water quality as it impacts human contact with coastal waterbodies

- Responds to key submissions
- Sets enterococci objectives

More detailed ↓

Impact of natural colour on visual clarity TAS – Dr Amanda Valois

Visual clarity TAS (WH.O9, Table 8.4)

- Assesses impact of naturally coloured water on visual clarity and implications for setting target for sediment
- Focus on Mangaroa

Load reductions to meet visual clarity TAS – James Blyth

Examines sediment load reductions required to achieve visual clarity TAS (Policies WH.P4 and P.P4)

- Overview of fine suspended sediment and visual clarity relationships
- Revises predicted sediment load reductions required to meet visual clarity targets
- Discusses uncertainty in predicting the load reductions

Nutrient outcomes – Dr Ton Snelder

Nutrient outcomes (WH.O9, Table 8.4 and P.O6, Table 9.2)

Process for developing nutrient criteria and justification for a new look-up table

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Overview of water quality modelling – James Blyth

Overview and purpose of the water quality models used in the Whaitua processes

Describes specific models involved in TAoP Whaitua and Whaitua TWT processes and applicability to PC1

Marine toxicological risk of zinc and copper in Te Awarua-o-Porirua – Dr Peter Wilson

Metal load reductions for Te Awarua-o-Porirua (Policy P.P4)

- Cover ecotoxicological risks of metals copper and zinc in harbour sediments of Te Awarua-o-Porirua associated with modelled sediment load changes

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Load reductions required for Te Awarua-o-Porirua – John Oldman

Sedimentation rate objectives for Te Awarua-o-Porirua and sediment load reduction (P.O3)

- Outcomes of targeted pathogen load reductions at key water quality sites
- Addresses natural sedimentation rate in Te Awarua-o-Porirua Harbour
- Calculates load reductions required to achieve PC1 sedimentation rate objective
- Outlines understanding of relationship between sedimentation load reductions and metal load reductions