

New Frontiers – Pioneering innovation Blue Carbon

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Blue carbon ecosystems: significant carbon sequestration potential



Carbon burial rate of forest types and blue carbon ecosystems



Error bars show max. range. Note the Y axis is on a log scale. Source: Adapted from Mcleod et al., 2011



Blue carbon ecosystem conservation and restoration benefits beyond carbon sequestration

Ecosystems Services

PROVISIONING

- Food (Fish, crustaceans)
- Materials (timber, medicines)
- Habitat for commercially important species and biodiversity values
- Water purification
 (improved water clarity)

REGULATING

- Carbon Sequestration & storage
- Coastal protection and erosion control (sediment trapping & shoreline stabilisation)
- Extreme weather protection (flood & storm)

SOCIAL / CULTURAL

- Health & wellbeing
- Recreation
- Education
- Indigenous knowledge, wellbeing
- Belonging

SUPPORTING

- Improves livelihood resilience
- Nutrient cycling
- Maintenance of genetic diversity
- Habitat for species











What is needed:

- Data on sequestration rates
- Pilot projects with well designed monitoring and evaluation
- Increased awareness of blue carbon ecosystems importance
- Enabling policies and management practices
- Alignment with NZ international commitments



Date: 4/7/2011

200m

Location: North part of Kaipara Harbour (Coordinates of central point: 36°22′42″S and 174°25′54″E)



B Date: 29/6/2021 Location: North part of Kaipara Harbour (Coordinates of central point: 36°22'42''S and 174°25'54''E)



Natural regeneration

C Date: 4/7/2011 Location: North part of Kaipara Harbour (Detail - Coordinates of central point: 36°22′27″S and 174°25′45″E)



D Date: 29/6/2021 Location: North part of Kaipara Harbour (Detail - Coordinates of central point: 36°22'27''S and 174°25'45''E)



Assessment of Blue Carbon Investment Readiness





Thank you

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