Managing Future Demands

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Ovalau Coastal Protection
Levuka - Fiji’s First Capital City
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UNESCO World Heritage Site
Proposed Options

- Gabion Baskets
- Reno Mattress
- Elco Rock Sand Bags
- Rock Rip Rap

Remote Island Challenges

- No Quarry on the Island
- Limited Transport options from the Mainland
- High Cost to import materials from overseas
Available Resource on the Island

- Many potential sites but access is difficult
- Large rock available in the river but not in large quantities
- A Rock Source was found that had been used 50 years ago to build the Tuna Factory
- Approval by the local village required
First Trial Site at Waitovu Village
Construction Issues

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- Presence of unsuitable rock at the source
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• “Teething Problems”

• Working in with the Ocean Tides
What Worked Well

- Utilisation of Local Staff & Machinery
- No imported material
- Expensive Quarry Equipment not required

Lesson Learnt

- Changing Ground Conditions. Standard Drawings now created
Immediate reduction in wave impact and Sea Spray