SHARED PATHWAYS PROJECT

Little Penguin Conservation Measures

Michael Rumble Eastern Bays Little Penguins Harbour Islands Little Penguins

Preliminary Points

Win-Win not Win-Lose

My Credentials

Conservation

NZ Coastal Policy Statement

Actual Habitat Loss

Loss estimated as 34%

Actually 78%

Already Far Too high

Penguin Sanctuaries

Sanctuary = Protected from Human Activity

Sanctuaries = Penguin Havens

Model Haven at Days Bay

Penguin Haven developed as a Safe Place Not a place for scientific research

Penguin Haven (Days Bay)



Security fence
Road protection
Overhead cover
Successful nesting
Model for other havens

NZ and Australian Clades

Clade = Group of organisms that evolved from a common ancestor

Wellington Penguin Colony = Pure NZ Clade

Confirmed in TWO independent studies

Primarily North Island
Conservation (protection) is essential

Preferred Nesting Habitat

South Island Study

Report in Notornis November 2019

Findings:

- Overhead cover essential
- Need soil as the base
- Sunlight reduces nesting success

Boxes are preferred Harbour Islands penguin study confirms this

HCC Original Proposal

Add three penguin havens

Access to nest sites across road

Access to small number of drains

HCC Proposed Havens

HCC Proposed Sites (3):

- Point Howard = not an offset
- Clapham Rock = poor habitat
- Whiorau Reserve = OK but incorrect

Not considered/addressed:

- Model Penguin Haven (Days Bay)
- Shoreline areas outside shared pathway

Preferred Sites For Havens

- Days Bay Penguin Reserve (in place)
- Whiorau Reserve (corrected location)
- Bishops Park shoreline
- HW Shortt/Maire Street shoreline
- Promenade shoreline (possible)

Sea Walls

Access across Marine Drive Ramps and steps access to road Limited or no wall height?

Marine Drive is the current kill-zone

Remove gaps
Boxes on sea side of wall

Rip-Rap (Rock Walls)

Access across Marine Drive Limited or no kerb?

Marine Drive is the current kill-zone

Keyholes in rip-rap
Concrete 'wall' >300-400 mm at top of rip-rap
Remove ramps where possible

Drains

Drains still accessible
Limited number (3)
Still nesting across Marine Drive

Extend drains into sea
Board walks for fishermen
One-way flaps?

Wider and Long-Term View

Single harbour community
Impact in one place affects others
Developing new nest sites takes years
Monitoring arrival/return is long-term

Need to avoid short-term solutions

Danger of missing long-term effects

Timing of Construction

No-go periods:

- Penguin nesting July to January
- Penguin moult January and February

Focus on March to May each year Construction bay-by-bay

Penguin Risk and Mitigation

Need for a comprehensive plan covering:

- Before, during and after construction
- Monitoring after construction
- Penguin detection dog
- Same for each bay

Risk Management and Mitigation Plan before Consent

Roadside Signage

Both ends of each bay Visible day and night Signs on roads

Follow example of Golden Bay

Protection from Predation

Protection from:

- Dogs and cats
- Rats
- Stoats, etc
- Human interaction

Dogs on leads
Cats in at night
Long-term monitoring

Comprehensive Predator Monitoring Plan

A More Balanced View

More and better penguin haven sites
More penguin boxes
No penguin access points in sea walls
Boxes at base of sea walls
Change design of rip-rap
Nests as 'keyholes' in rip-rap
Extend drains beyond shoreline
Rubbish bins along pathway
Effective signage at each bay
Construction bay-by-bay
Restricted times for construction
Predator monitoring programme
Long-term monitoring for return
Risk management and Mitigation Plan before Consent issued

Genuine changes and not more habitat loss

These changes will make a difference!!

Any questions?

Additional Slides

DOC Authorities

Current DOC Study Permit

Level 3 Handling and Banding Certificate

Responsible for penguin Conservation in study areas

Conservation

Definition:

"The protection of ... plants, animals, natural areas ... from the damaging effects of human activity"

NZ Policy Bottom Line

NZ Coastal Pathways Policy Statement 2010

- Policy 11:
 - √ Clause 11(a)(i)
 - √ Clause 11(b)(ii)
 - √ Clause 11(b)(iii)

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- Policy 12:
 - √ Clause 19(3)(a)
 - √ Clause 19(3)(b)

Point Howard

Looking North



Looking South





Exposed shoreline?
Interruption/Noise?
Road protection?
Flat ground?
Overhead cover?
Current nests?

Debris?

Clapham Rock

View from South

View from North





Security?
Fishing Site?
Road Protection?
Flat Ground?

Overhead cover?
Successful nesting?
Exposed shoreline?

Whiorau Reserve

View from North





View from South



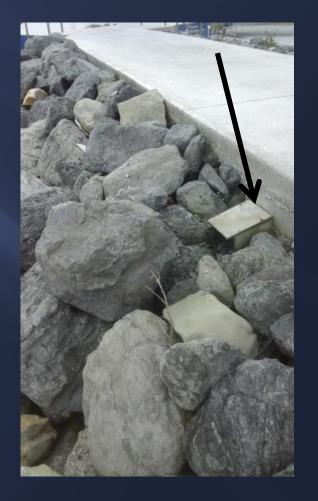
Security?
Interruption/Noise?
Road protection?
Flat ground?
Overhead cover?
Current occupants?
Current nests?

Road view from South

Sea Wall Boxes



One Example: (Kaikoura Ocean Research Institiute)



Keyholes In Rip-Rap





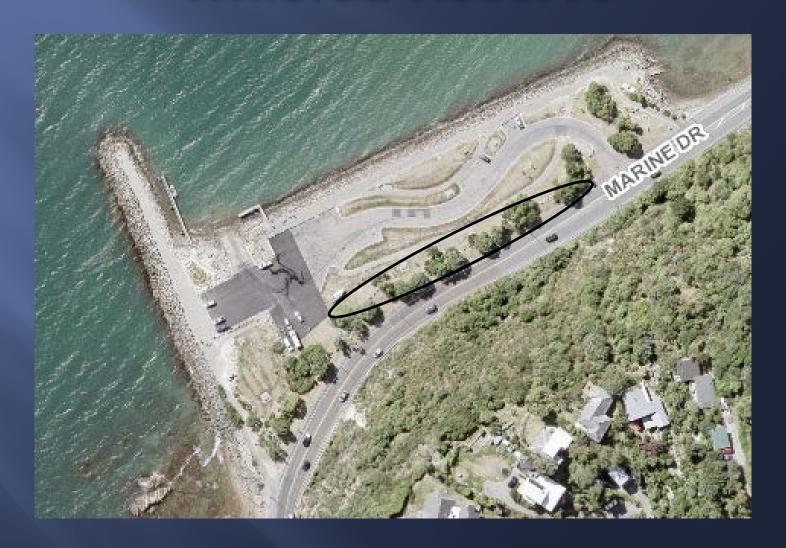


Images from breakwater at St Kilda, Melbourne

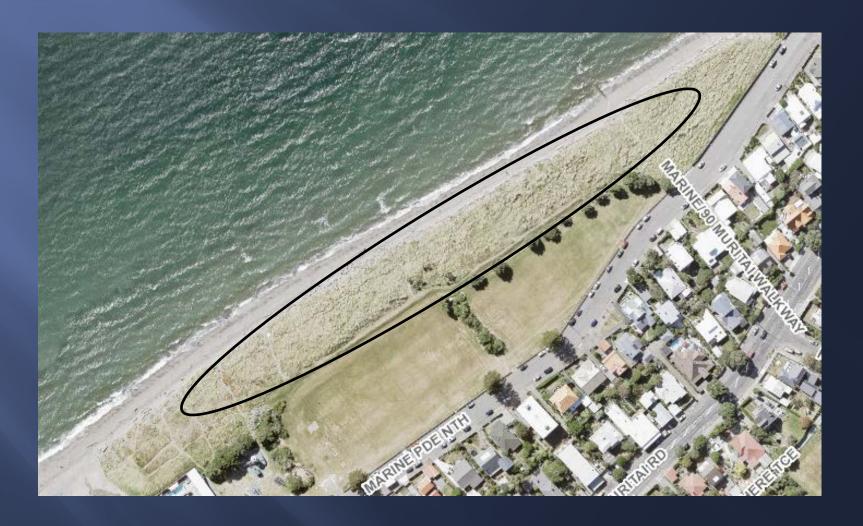
Penguin Haven (Days Bay)



Whiorau Reserve



Opposite Bishops Park



HW Shortt/Maire Street



Esplanade

