

prevent further flow in the pipe. This is a factor of pipe size inadequate when the water level in the pond rises and stops hrydraulic action. ie the detention device does not need to be full - just as the small diameter pipe from Island Rd cannot freely drain the flow rate drops and floods the cesspit compounding the flow past it down to the Ocean.

The pond is never maintained, fills with dead organic matter so cannot infiltrate into the surrounding sand

The method of maintaining has been to dig out the base without refilling sand so each clean the base is lower and in the water table so algae blooms until the surrounding water table lowers below the detention base.

NB: this detention device is higher above MWS than Williamson which is currently below MWS so still has water.

What must happen:

- 1. Lift up the detention base to the inverts of Pipi Rd pipe (Rangi is higher) ie put 500mm of clean sand in the base
- 2. Enlarge the detention area to 3-4 times the size with a higher base and more area stormwater will soak in better
- 3. Provide a managed overflow at the soffit height to the Ocean. This will clear the back pressure so stormwater if too much will overflow and not cause back pressure on the Pipi pipe.
- 4. Form a better Marshall area around both cesspits at Island View
- 5. Repair the sand dunes as this erosion is a direct result of poor maintenance and poor design
- 6. Form a proper outlet along the sand dunes for the 1:250 year events to protect the toilets and further dune erosion noting this is just so erosion repair is easier as the coastline will be affected in any event if a device is constructed it will reduce the chances of a full wash out and repair cost.

Does this work add to community well-being:



Yes as it reduces the immediate chance of further dune erosion to Hinemoa and the toilets.

2013 Island View in TCDC Adventure playground submission.jpg

This 2013 satelite image is attached to the consultation document for the adventure playground.

Of note consultation occurred for a playground which sets the standard of significance for community engagement.

The 100m mark is scaled off the road separation between Island View and Hinemoa at 230m

The 100m mark is the edge of the then detention area.

The 138m plot is the track through the sand dunes that later had a boardwalk built.

It appears the green vegetation is the extent of the detention area.

2 DRAFT WHANGAMATA RESERVE MANAGEMENT PLAN: Document 2

Island View Reserve

Reserve Classification Location Current State	Recreation 302 Rangi Avenue, Whangamata Category C: Neighbourhood Open Space	Area ID Number Legal Description	4.5784 ha 0497503400 Lot 704 DPS 5197	25/
Future Use	Category B: Neighbourhood Open Space		NZ Gazette 1962 / 561	Harring .
Asset Registry	Leas	es and Licences		104/
Toilet	Picnic facilities			State State
rear dunes and a range provide access for visit A children's playground At the end of Island Vie Island View Reserve is The coastal beach rese	the dunes along this coastline appeared before bein of dune plant species, plus many introduced weed ors to experience this area. I has been promoted in the past for the Island View w Road, a beachfront carpark provides access for n a popular place for informal sporting activities, famil rives are very popular during the summer period, for ne area acts as a stormwater collection area during	species. A walkway was dev reserve. nany beach visitors. Public to ly gatherings, picnics and dop r visitors and holiday makers	eloped through the back dunes to ilets are also located in this area. g exercising.	
Reserve Issues		7		
 The coastal beach rese 	erves are suffering from coastal erosion. Walkways h	have been constructed in sev	eral areas to encourage people's	

- The co The coastal beach reserves are suffering from coastal use and to try to minimise human impact on the dunes.
- .
- use and to try to minimise furman impact on the duries. There are a variety of weed species in the duries, in particular honeysuckle and agapanthus. In some areas of the duries, extension of private gardens and dumping of garden waste occurs. The reserve access at the end of Island View Road has been used in the past for the launching and retrieval of boats. Access has been restricted to minimise disturbance to beach users and the impacts on vehicles crossing the duries. Access will continue only for the launching of hand carried small watercraft and dinghies.



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Prepared for Whangamata Community Board

2013 part A TCDC reserves projects.jpg

This is from the TCDC Draft Management Plan Reserves

States full knowledge of existing stormwater collection area during periods of high rainfall

Note the detention/basin is visible but covered in vegetation

Ie the adventure park application acknowledged the detention area. The vegetation indicates that its not being maintained.

3 DRAFT WHANGAMATA RESERVE MANAGEMENT PLAN: Document 2

- Reserve Management Policy

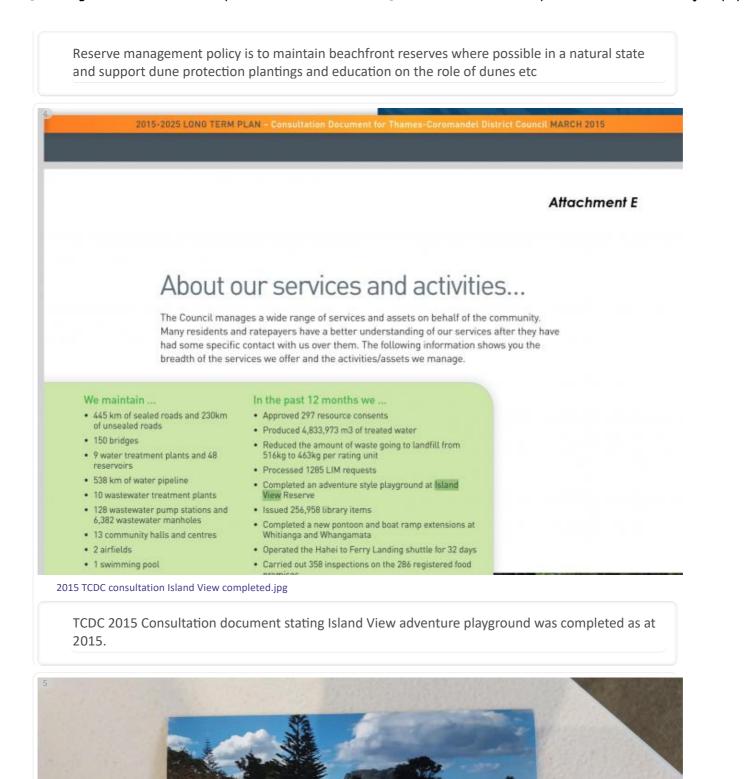
 1. Undertake the development of the reserve:
 (a) Provide for an 'adventure' style play area within the unused grassed area behind the dune.
 - (b) Public picnic tables (c) Formation of carpark

 - (d) Formalise and improve walkways
 Allow for the open grass area to be used for Council approved events.
- Monitor the use of the walkway through the central area of Island View reserve and close tracks not required. Maintain beachfront reserves where possible in a natural state.
- Maintain beachfront reserves where possible in a natural state. Promote "beach care" programmes to encourage support for dune protection plantings and education on the role of dunes. Prohibit encroachment from adjoining properties onto the recreation reserves. Maintain access for launching and retrieval of small watercraft from defined area. Review locations of trees to provide shade for reserve users.

- Undertake weed control programmes. Encourage and provide for active recreation on open grass area 10.
- 11, 12,
- Off leash dog exercise area
 Provide for overnight camping of certified self-contained vehicles in carpark.
 Reserve objectives and policies as outlined in Document 1 apply.

Proposed Development	Priority	
Picnic facilities	Short term	
Children's playground	Short term	
Carpark formation	Long term	

2013 Part B adventure park.jpg



2017 after cyclone Cook.jpg

Taken from Hinemoa and before lake burst/erosion - note sand dunes along right - all washed away.

The Norfolk Tree in the background is used in a later reference from the toilet end.

Note Cyclone Cook was the first cyclone since the adventure park was built.



2017 arial showing adventure playground.jpg

Attempted plot of current detention edges is now 110m from Island View Rd.

Resident feedback is they claim about 1/3 of the pond length was filled for the flying fox. This could be true if the old detention area ran along the flying fox line - with a bend.

It is likely the flying fox bed required raising the surface which means the slope will be steeper or the detention base moved further towards the path.

Note the boardwalk is not yet installed. This construction could well have caused the detention area width to be reduced to save building piles.

Note sand dunes still in tact BUT their is a scarf on the dotted line - this could be erosion from previous storm events meaning this stormwater system has never worked at all.



2023 boat ramp washed out after winter storms.jpeg

Natural erosion at boat ramp.

NB: the area of sand dunes on the right was the recent (2022 I think) dune restoration which was all but eroded away during the winter storms - not in Gabrielle but the ongoing spring and king tides in heavy seas.



2023 erosion and debris beside toilet.jpeg

With the loss of the sand dunes in 2017 storm surges have continued the erosion.

The foreground valley in this image is one of the overland flow paths from Pipi Rd/Island View Rds when the cesspits become overwhelmed - when pond is full.



2023 erosion behind Hinemoa winter.jpeg

Last properties at end of Himemoa

This owner put large 1Ton bags filled with sand to protect further erosion and to protect the Pohutukawa Tree and was ordered to remove them.



20230307_084914.jpg

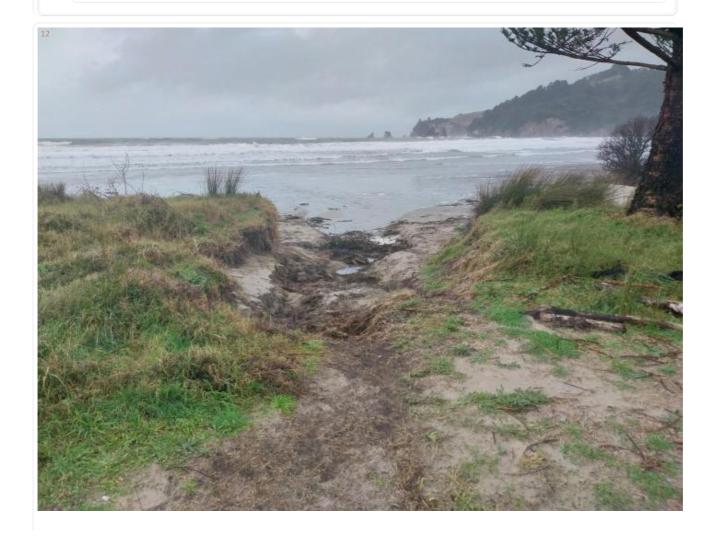
Compare dunes now - the Norfolk Pine is now in danger of erosion with the sand dunes lost to the left.



20230618_093121.jpg

18 June 2023

Island View pond water level above the boardwalk and both Rangi and Pipi discharge pipes



20230624_103549.jpg

Erosion beside toilets - overflow from Pipi/Island View Rds washes down and cut this valley - part goes here and part continues on. The earlier photos do depict this so is not new.

The Norfolk Pine on the right is the same tree sighted from Hinemoa behind the lake pre sand dune erosion/wash out.



20230713_082522.jpg

Shows pond in relation to flying fox.

Residents claim this area was built up to create the fall of the flying fox by filling 1/3 of the pond along the flying fox.

The walkway is shown in the end of the pond - reference used in location.



20231102_084521.jpg

2 November 2023

Water all but gone - 3 days after 200mm rain event



320231029 TCDC SmartMaps Island View stormwater assets.jpg

From 3 Waters Smart Maps looks like the playground entry is Pipi Rd and the other is an unmarked extension from Rangi Rd.

Be useful to check that the Pipi one is clear as the carpark often gets flooded from Pipi and Island View Rd.

The circled sumps were filled with sand after last weekends big blow. Sumps cannot b installed within the sand dune areas. They fill with sand and then cannot function so causes low lying nearby properties to flood. This is why Hinemoa and Pipi properties flood. The sand dunes build up when lighter sand is blown up the coastal boundary and drops on ventury effect. This raises the batters around the coastline and protects against sea surges. Roads like Hinemoa should NOT be extended into the sand dunes as this stops the natural defence to coastal erosion. Stormwater assets cannot function during events because the natural event brings sand with it. These need moving back out of range of the sand.

Likewise properties - another story.