

STDC Coastal Structures

Monitoring Programme

Annual Report

2020-2021

Technical Report 2021-52



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Taranaki Regional Council
Private Bag 713
Stratford

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Executive summary

South Taranaki District Council (STDC) holds coastal permits for various structures along the South Taranaki coast. This report for the period July 2020 to June 2021 describes the monitoring programme implemented by the Taranaki Regional Council (the Council) to assess STDC's environmental and consent compliance performance during the period under review.

During the monitoring period, STDC demonstrated an overall high level of environmental performance.

STDC now holds a total of 11 coastal permits relating to coastal structures, which include a total of 51 conditions setting out the requirements that they must satisfy. STDC holds three coastal permits relating to boat ramps, wharves and jetties, one permit relating to an access structure and seven permits relating to coastal protection from erosion. A further two coastal permits are held for outfall structures which are the subject of other monitoring programmes, namely, the Patea Wastewater Treatment Plant, and the Opunake Wastewater Treatment Plant, and are therefore not discussed in this report.

The Council's monitoring programme for the period under review included an annual inspection of the various structures.

The monitoring found that the majority of the coastal structures were compliant with consent conditions. At Opunake Beach, one structure was found in a state of disrepair and was deemed to be non-compliant. STDC is currently making arrangements to replace this structure. No definitive environmental effects were discovered in 2020-2021. It should be recognised, however, that the ability of the current monitoring programme to detect such effects is limited. Additional monitoring activities commenced during the year that will greatly help to address this issue going forward.

During the year, STDC demonstrated a high level of environmental and administrative performance with the resource consents.

For reference, in the 2020-2021 year, consent holders were found to achieve a high level of environmental performance and compliance for 86% of the consents monitored through the Taranaki tailored monitoring programmes, while for another 11% of the consents, a good level of environmental performance and compliance was achieved.

In terms of overall environmental and compliance performance by the consent holder over the last several years, this report shows that the consent holder's performance has improved in the year under review.

This report includes recommendations for the 2021-2022 year, including recommendations to alter the monitoring programme.

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1 Introduction

1.1 Compliance monitoring programme reports and the Resource Management Act 1991

1.1.1 Introduction

This report is for the period July 2020 to June 2021 by the Taranaki Regional Council (the Council) on the monitoring programme associated with resource consents held by South Taranaki District Council (STDC) relating to structures in the coastal marine area. The South Taranaki District covers an area of coast from the mouth of the Stony River just south of Okato in the north, extending southwest to approximately 2 km south of Wai-inu Beach, a coastline of approximately 140 km. STDC administers various coastal reserves situated throughout the South Taranaki District.

This report covers the results and findings of the monitoring programme implemented by the Council in respect of the consents held by STDC that relate to coastal structures, and is the 14th report by the Council to cover the STDC coastal permits for structures in the coastal marine area and their effects.

1.1.2 Structure of this report

Section 1 of this report is a background section. It sets out general information about:

- consent compliance monitoring under the *Resource Management Act 1991* (RMA) and the Council's obligations;
- the Council's approach to monitoring sites through annual programmes;
- the resource consents held by STDC;
- the nature of the monitoring programme in place for the period under review; and
- a description of STDC's consented coastal structures.

Section 2 presents the results of monitoring during the period under review, including scientific and technical data.

Section 3 discusses the results, their interpretations, and their significance for the environment.

Section 4 presents recommendations to be implemented in the 2021-2022 monitoring year.

A glossary of common abbreviations and scientific terms, and a bibliography, are presented at the end of the report.

1.1.3 The Resource Management Act 1991 and monitoring

The RMA primarily addresses environmental 'effects' which are defined as positive or adverse, temporary or permanent, past, present or future, or cumulative. Effects may arise in relation to:

- a. the neighbourhood or the wider community around an activity, and may include cultural and social-economic effects;
- b. physical effects on the locality, including landscape, amenity and visual effects;
- c. ecosystems, including effects on plants, animals, or habitats, whether aquatic or terrestrial;
- d. natural and physical resources having special significance (for example recreational, cultural, or aesthetic);
- e. risks to the neighbourhood or environment.

In drafting and reviewing conditions on discharge permits, and in implementing monitoring programmes, the Council is recognising the comprehensive meaning of 'effects' inasmuch as is appropriate for each

activity. Monitoring programmes are not only based on existing permit conditions, but also on the obligations of the RMA to assess the effects of the exercise of consents. In accordance with Section 35 of the RMA, the Council undertakes compliance monitoring for consents and rules in regional plans, and maintains an overview of the performance of resource users and consent holders. Compliance monitoring, including both activity and impact monitoring, enables the Council to continually re-evaluate its approach and that of consent holders to resource management and, ultimately, through the refinement of methods and considered responsible resource utilisation, to move closer to achieving sustainable development of the region's resources.

1.1.4 Evaluation of environmental and administrative performance

Besides discussing the various details of the performance and extent of compliance by the consent holder, this report also assigns them a rating for their environmental and administrative performance during the period under review.

Environmental performance is concerned with actual or likely effects on the receiving environment from the activities during the monitoring year. Administrative performance is concerned with the consent holder's approach to demonstrating consent compliance in site operations and management including the timely provision of information to Council (such as contingency plans and water take data) in accordance with consent conditions.

Events that were beyond the control of the consent holder and unforeseeable (that is a defence under the provisions of the RMA can be established) may be excluded with regard to the performance rating applied. For example loss of data due to a flood destroying deployed field equipment.

The categories used by the Council for this monitoring period, and their interpretation, are as follows:

Environmental Performance

High: No or inconsequential (short-term duration, less than minor in severity) breaches of consent or regional plan parameters resulting from the activity; no adverse effects of significance noted or likely in the receiving environment. The Council did not record any verified unauthorised incidents involving environmental impacts and was not obliged to issue any abatement notices or infringement notices in relation to such impacts.

Good: Likely or actual adverse effects of activities on the receiving environment were negligible or minor at most. There were some such issues noted during monitoring, from self reports, or during investigations of incidents reported to the Council by a third party but these items were not critical, and follow-up inspections showed they have been dealt with. These minor issues were resolved positively, co-operatively, and quickly. The Council was not obliged to issue any abatement notices or infringement notices in relation to the minor non-compliant effects; however abatement notices may have been issued to mitigate an identified potential for an environmental effect to occur.

For example:

- High suspended solid values recorded in discharge samples, however the discharge was to land or to receiving waters that were in high flow at the time;
- Strong odour beyond boundary but no residential properties or other recipient nearby.

Improvement required: Likely or actual adverse effects of activities on the receiving environment were more than minor, but not substantial. There were some issues noted during monitoring, from self reports, or during investigations of incidents reported to the Council by a third party. Cumulative adverse effects of a persistent minor non-compliant activity could elevate a minor issue to this level. Abatement notices and infringement notices may have been issued in respect of effects.

Poor: Likely or actual adverse effects of activities on the receiving environment were significant. There were some items noted during monitoring, from self reports, or during investigations of incidents reported to the Council by a third party. Cumulative adverse effects of a persistent moderate non-compliant activity could elevate an 'improvement required' issue to this level. Typically there were grounds for either a prosecution or an infringement notice in respect of effects.

Administrative performance

High: The administrative requirements of the resource consents were met, or any failure to do this had trivial consequences and were addressed promptly and co-operatively.

Good: Perhaps some administrative requirements of the resource consents were not met at a particular time, however this was addressed without repeated interventions from the Council staff. Alternatively adequate reason was provided for matters such as the no or late provision of information, interpretation of 'best practical option' for avoiding potential effects, etc.

Improvement required: Repeated interventions to meet the administrative requirements of the resource consents were made by Council staff. These matters took some time to resolve, or remained unresolved at the end of the period under review. The Council may have issued an abatement notice to attain compliance.

Poor: Material failings to meet the administrative requirements of the resource consents. Significant intervention by the Council was required. Typically there were grounds for an infringement notice.

For reference, in the 2020-2021 year, consent holders were found to achieve a high level of environmental performance and compliance for 86% of the consents monitored through the Taranaki tailored monitoring programmes, while for another 11% of the consents, a good level of environmental performance and compliance was achieved.¹

1.2 Site overview

1.2.1 Bayly Road

Bayly Road Beach is located just north of Cape Egmont. The beach is composed entirely of rock and cobble with no sand.

Coastal erosion and storm surge events eroded the coastal scarp along Coast Road at the end of Bayly Road. In order to protect Coast Road, and the recreational area between Bayly Road and the Cape Egmont Boat Club, STDC applied for, and was granted, a coastal permit (**5512**) to erect, place and maintain a boulder rip rap seawall on the foreshore on Coast Road at the end of Bayly Road.

As a result of the works, the boulder protection now extends from the boat ramp in the north to the pre-existing 40 m of boulder protection south of Bayly Road, with a total length of approximately 290 m (Photo 1).

¹ The Council has used these compliance grading criteria for more than 17 years. They align closely with the 4 compliance grades in the MfE Best Practice Guidelines for Compliance, Monitoring and Enforcement, 2018



Photo 1 Bayly Road seawall (April 2017)

1.2.2 Middleton Bay

Middleton Bay is a small 500 m long, pocket beach at Opunake. The beach is exposed to west and southwest storm waves, but is protected from northwest conditions (Tonkin & Taylor 2001).

The Council had been concerned about the state of the foreshore at Middleton Bay, Opunake for some years. In 1996 the Council was invited by the STDC to be a member of the Middleton Bay Working Party.

In 1998 STDC engaged Dr Jeremy Gibb to investigate and report on the coastal management of Middleton Bay, Opunake. A report 'A coastal management plan for Middleton Bay, Opunake, South Taranaki District', was produced in October 1998 (Gibb, 1998).

The report noted that the 80 m long rubble revetment northwest of the boat ramp was unsightly and adversely affecting the beach and adjacent foredune. While the underlying boulder substrate was natural, the additional rubble was not. The report recommended that:

- The randomly poured concrete should be removed;
- The alignment of the revetment be altered to follow the natural plan geometry of the beach-foredune; and
- The seaward face up to the level of the car park be reconstructed at a gradient of no less than 1:3 using rounded andesitic boulders.

The report also recommended that rubble situated to the northwest of the above mentioned revetment be removed from the foreshore.

Council supported the recommendations made within the Gibb report. The Council noted that the existing coastal erosion protection works were unlicensed, and that therefore the proposed reconstruction and realignment would require a coastal permit pursuant to Section 12 of the RMA.

Following an extreme storm surge event in March 1999 the Council requested an update from STDC regarding the proposed implementation of recommendations from the Gibb report. It was noted that the Council considered it pertinent that steps were taken to remove all debris (concrete, rubble, asphalt, steel, etc.) from the foreshore, and to license the remaining coastal erosion protection works.

Subsequently, STDC applied to reconstruct, and maintain a boulder rip rap seawall on the foreshore at the southeast end of Middleton Bay for coastal erosion protection purposes. This application was granted as coastal permit **5504**.



Photo 2 Middleton Bay seawall and staircase (9 June 2021)

Due to Middleton Bay being a pocket sand beach, and the location of the revetment being well forward towards the surf zone, there is a high potential for adverse effects to the soft shoreline at the north-western end and in front of the structure. Within a year of the structure being constructed, there was erosion of the foredune at the north-western end of the revetment, which may have been as a result of 'end effects' from the structure (Tonkin & Taylor, 2001).

Coastal permit 5504 was renewed in August 2019. The renewal process authorised additional rock to be placed at the northern end of the structure as well as the installation of a new concrete staircase for beach access (Photo 2).

1.2.3 Opunake Bay boat ramp

In May 2005, the Opunake Artificial Surf Reef Trust was granted consents relating to construction of an artificial surf reef in Opunake Bay. As part of the project the STDC obtained a coastal permit (**6791**) to erect and maintain a boat ramp and breakwater at the northern end of Opunake Bay to assist in the construction of the reef.

The breakwater structure was once part of a fully functional jetty, constructed and used in the early 1900s to transfer cargo from rail to ship. The jetty has since been removed, but piles from the jetty still remain. The rock breakwater is still present, although the sea has moved rocks and levelled out the breakwater structure over many years. There was also a concrete boat ramp above mean low water springs (MLWS) adjacent to the breakwater.

STDC undertook some maintenance of the structures in order to assist in the construction of an artificial surf reef. The maintenance involved:

1. Reconstructing the concrete boat ramp;
2. Repositioning breakwater rocks to build up a section of the breakwater; and
3. Moving boulders from the basin at the base of the boat ramp back onto the breakwater structure.

The boat ramp was reconstructed with concrete to a width of 4 m, and length of 35 m down to MLWS (which is a +0.3 tide).

The breakwater is approximately 150 m long. The works involved building up a section along about a third of the current breakwater in order to stop waves during mid-tide breaking into the boat ramp area. The built up section is approximately 45 m long, 3 m wide, and to a height (reduced level) of 2 m.

1.2.4 Opunake Beach

Opunake Beach is a 500 m long pocket sand beach between two significant headlands which shelter the beach from all but direct south-west storm events.

Due to this sheltering, the wave energy entering the bay is generally low, and as a result there is a wide flat beach (Tonkin & Taylor 2001).

At the back of the beach, the former sand dune area has been flattened for the development of a surf club and camping ground. Only at the north-west end of the bay is there any remnant of dunes remaining. Over the rest of the bay, the boundary between the beach and the developed area is marked by a sea wall constructed from power poles, consented in 1994 by coastal permit **4578** (Tonkin & Taylor 2001).

The structure covered by this permit consists of a low retaining wall which stretches the length of Opunake Beach. Breaks and ramps in the wall provide pedestrian, vehicular and inflatable rescue boat access to the beach. The structure was constructed in stages, some of which are many years old. The structure was built in order to stabilise the natural accretion which has occurred on the beach and to protect and enhance the recreational facilities which exist immediately landward of the beach.

1.2.5 Kaupokonui

The Kaupokonui Stream enters the sea approximately 5 km west of Manaia. The stream is somewhat enlarged and tidal around the mouth and is popular for whitebaiting and fishing.

Following receipt of a complaint regarding works in the Kaupokonui Stream in 2002, investigation by Council officers discovered that substantial boulder rock rip rap had been placed on the true left bank of the Kaupokonui Stream (Photo 3).

Subsequent to these investigations, applications for a coastal permit (**5983**) (for those works within CMA, the upstream boundary being 5 m downstream of the footbridge) and for a land use consent (for those works upstream of the CMA) were received from the STDC.



Photo 3 Looking downstream along rock protection works in the Kaupokonui Stream (April 2017)

1.2.6 Denby Road

In Hawera, locals access Waihi Beach via the track at the end of Denby Road (Photo 4). The track down to the beach is cut through the cliffs from the carpark at the end of Denby Road. Over time the access to the beach has become difficult, due to storms and erosion, with large sections of the track eroding away.

STDC installed a gabion mattress at the bottom of the access track with the intention of improving access to the beach and helping control the erosion problems. The mattress measured 6 m x 2 m x 0.23 m in size and was placed on existing rocks. Surrounding the rocks a geo textile fabric was used to prevent the scouring of sand and to increase the longevity of the structure. Once completed, the structure was covered in concrete to further aid pedestrian access. The structure is authorised by coastal permit **6736**.

Ongoing shoreline erosion caused this structure to gradually deteriorate to the point where it was no longer providing safe access to Waihi Beach, and was deemed non-compliant with coastal permit **6736**. In December 2019, the remaining parts of this access structure were removed and the scarp was fenced off. An alternative track is currently providing beach access.



Photo 4 Remnants of Denby Road beach access structure consented under 6736 (April 2019)

1.2.7 Patea river mouth structures

The Patea River is the former port that served the freezing works and town of Patea in recent years and provides the most navigable entrance point along the stretch of coast between Port Taranaki and the Wanganui River. The Patea River is used by both recreational and commercial fishermen, as well as companies undertaking surveys for offshore oil exploration.

The Patea River mouth was formed by constructing two concrete block seawalls, or moles, in the late 19th and early 20th century to create a navigable entrance to the Patea River. These moles run seawards from the existing high water mark for a distance of approximately 325 m on the southeast side (true left side) and approximately 112 m on the northern side (true right side). At the seaward end of the moles an opening of 60 m is present.

Coastal permit **4573** covers the following existing structures within the coastal marine area of the Patea River mouth: river mouth training groynes; rock training wall; Mana Bay seawall; wave guide wall; and the Carlyle Bay rock protection works. While it is recognised that the structures have significant effects on sediment movement both within the river mouth and on the open coast, most of the associated environmental change has already occurred with the structures having been in place for many decades.

Significant levels of erosion occurred along this coastline during the past 50 years which led to the river moles becoming seriously degraded. Studies undertaken by consultants (Duffill Watts & King, 2006) showed that with the condition of the moles and rate of shoreline change, the river moles could decay, threatening the overall stability of the river entrance. If the stability of the river entrance changed, this could result in the passage between the river and sea becoming no longer navigable. From the studies undertaken by Duffill, Watts & King (2006), it was found that without some intervention process the Patea River would break through behind the southeast mole within 20 to 25 years and prevent navigable access to the sea. It was proposed that the most effective method to maintain a navigable river entrance for small seagoing craft was to reconstruct the southeast seawall. Consent **6839** was granted by the Council authorising the works, which aimed to constrain the river channel to its existing alignment and prevent it from breaking through behind the left mole (Photo 5).



Photo 5 Patea groynes (April 2017)

1.2.8 Patea boat ramp

The boat ramp at Patea has been in existence for many years, providing one of the few effective and safe boat launching facilities on the South Taranaki coast (Photo 6). The facilities are used extensively and are considered to be one of Patea's more important recreational facilities.

The launching ramp was an undular concrete pad which extended from the end of the formed roadway of Turi Street, down to approximately the low tide level of the river. Upon granting of coastal permit **4566**, the STDC strengthened the existing boat launching ramp by placing a concrete strengthening overlay over the existing ramp. The overlay is 7 m wide and extends a further 3 m down into the river than the previous ramp, improving the launching facility.

The overlay was contoured so it is more consistent with natural beach profiles than the previous ramp and is therefore expected to have less effect on riverbed/beach processes than the previous ramp. In association with expanding and strengthening the ramp, the STDC reinstated and rock protected the eroding riverbank both immediately upstream and downstream of the ramp. The bank protection was wrapped smoothly into the existing bank and aligned in a manner which is compatible with wave refraction/diffraction patterns and which will not adversely affect natural river processes.



Photo 6 Patea boat ramp (April 2017)

1.2.9 Patea wharf

The wharf (permit **4575**) was constructed during the early years of the harbour endowment and was refurbished with upstream batter protection following floods in 1922. The structure extends downstream from the State Highway 3 Bridge on the true left bank of the stream.

The sub-structure piling proved to be effective river training works, and in conjunction with an adjacent smaller downstream wharf, caused significant realignment of the downstream river meander pattern. The realigned meander pattern that developed has created a stable regime. It is considered that this stability will remain so long as the left bank flow alignment out from the road bridge bend is maintained, with the batter protection work and wharf now preserving the required flow alignment.

1.2.10 Waverley access ways

Waverley Beach is an 8 km long stretch consisting of unique landforms of caverns, ravines, blowholes and eroding stacks. Eleven small peninsulas project 5-15 m out to sea. This is a dynamic coast with many un-vegetated and unstable dunes, with much of the area continually being eroded by wind and wave action.

The access way originally covered by consent **4567** has been in existence for many years. It was originally formed in order to provide access to the beach down the steep coastal cliffs present in the area. The access way is basically a bulldozed track which traverses down the mudstone cliffs.

The access way relieves access pressure from the fragile vegetated sand dunes which separate the beach from the Waverley Beach settlement, and as such has a role in protecting the environment. Full development of this access way was never completed and as the existing path is not deemed to be a coastal structure by Council, this consent was allowed to expire in June 2010.

The structure covered by consent **4579** consists of a concrete public access ramp way, 20 m in length and 3 m in width with an associated 2 m wide by 16 m long concrete step-way down the western edge of the ramp (Photo 7). The ramp extends down to the beach sands from the upper ground level of the mudstone coastal bluffs, providing access to Caves Beach, again reducing pedestrian damage of the fragile sand dunes.



Photo 7 Access to Waverley Beach (April 2017)

1.3 Resource consents

STDC currently holds 11 coastal permits, the details of which are summarised in the table below. Summaries of the conditions attached to each permit are set out in Section 3 of this report.

A summary of the various consent types issued by the Council is included in Appendix I, as are copies of all permits held by STDC during the period under review.

Table 1 Summary of coastal structure permits held by STDC

Consent number	Sub-type	Location	Purpose	Expiry Date
4566-2	Boat ramp	Patea	Boat ramp and jetty	1/06/2028
4573-2	Protection	Patea	Maintain moles etc.	1/06/2034
4575-2	Wharf	Patea	Maintain wharf	1/06/2028
4578-2	Protection	Opunake Beach	Retaining wall and access	1/06/2030
4579-2	Access	Waverley	Public access ramp	1/06/2028
5504-2	Protection	Middleton Bay	Boulder rip rap seawall	1/06/2036
5512-2	Protection	Bayly Road	Boulder rip rap seawall	1/06/2031
5983-2	Protection	Kaupokonui	Boulder rip rap	1/06/2035
6736-1	Protection	Hawera	Gabion mattress and access ramp	1/06/2025
6791-1	Boat ramp	Opunake Bay	Boat ramp and rock breakwater	1/06/2024
6839-1	Protection	Patea	Reinstate training wall	1/06/2022

1.4 Monitoring programme

1.4.1 Introduction

Section 35 of the RMA sets obligations upon the Council to gather information, monitor and conduct research on the exercise of resource consents within the Taranaki region. The Council is also required to assess the effects arising from the exercising of these consents and report upon them.

The Council may therefore make and record measurements of physical and chemical parameters, take samples for analysis, carry out surveys and inspections, conduct investigations, and seek information from consent holders.

The monitoring programme for the STDC coastal structures consisted of four primary components.

1.4.2 Programme liaison and management

There is generally a significant investment of time and resources by the Council in:

- ongoing liaison with resource consent holders over consent conditions and their interpretation and application;
- in discussion over monitoring requirements;
- preparation for any consent reviews, renewals or new consent applications;
- advice on the Council's environmental management strategies and content of regional plans; and
- consultation on associated matters.

1.4.3 Council inspections

Structures were visited once during the monitoring period. The main points of interest were consent compliance and potential environmental effects, including end effects. With regards to consent compliance, the structures were visually assessed to identify any apparent issues that either posed a safety concern, or meant that the structure was no longer effectively functioning as intended in the consent. The Council also endeavoured to identify potential erosional end effects associated with the structures. However, because these processes can occur gradually and can be difficult to discern from natural events; additional targeted monitoring is also necessary (see Section 1.4.5).

1.4.4 STDC inspections

STDC also inspected each structure during the monitoring period in order to make their own assessment of consent compliance, and generally monitor the condition of each structure and the surrounding coastal environment. These inspection reports were provided to Council for review.

1.4.5 Survey based monitoring


STDC have begun to undertake additional, survey based monitoring at selected coastal sites. To date, this monitoring has involved drone-based topographical surveys and ground-based beach profile surveying. The details of this monitoring, including methodology, sites, frequency, data analysis and reporting, will be stipulated in a Monitoring Plan that is to be agreed upon between Council and STDC. At the time of reporting, the Council has reviewed and provided feedback on a Draft Monitoring Plan, which is yet to be finalised. The results from this survey based monitoring component are to be assessed and interpreted by someone who is suitably experienced and qualified. Further background regarding the rationale for this additional monitoring is set out in Section 3.5 of this compliance report.

2 Results

2.1.1 Bayly Road

A summary of the monitoring carried out in 2020-2021 is presented below, in Table 2.



Table 2 Bayly Road seawall monitoring summary 2020-2021

5512-2: Bayly Road seawall			
Council inspection date:	9 June 2021	STDC inspection date:	8 April 2021
Council inspection summary:			
<p>Previous inspections had identified a number of areas where the seawall had slumped and allowed erosion to occur behind the structure. The erosion was most significant at the intersection of Bayly and Coast Roads. These issues had been repaired prior to this inspection, with additional rock added to all of the affected areas. The slope of repaired section in front of Bayly and Coast Roads was found to be quite steep, with one or two boulders appearing partially perched. STDC have been directed to assess whether additional work is required to reduce the risk of them falling, or if they are, in fact, safe and secure. STDC also carried out an inspection of this structure during the year under review (however, the perched boulder issue was not identified at the time). Their report was provided to Council on 30 June 2021.</p>			
Survey based monitoring summary:			
This structure has not been identified as requiring additional, survey based monitoring.			
Overall compliance assessment:			
Compliant (pending the outcome of STDC's assessment, mentioned above).			
Photos and figures:			
Steep repaired section of Bayly Road seawall (9 June 2021).			
			

2.1.2 Middleton Bay

A summary of the monitoring carried out in 2020-2021 is presented below, in Table 3.


Table 3 Middleton Bay seawall monitoring summary 2020-2021

5504-1: Middleton Bay seawall			
Council inspection date:	9 June 2021	STDC inspection date:	8 April 2021
Council inspection summary: No obvious end effects or scouring associated with the structure. Structure appeared to be maintained in satisfactory condition. The adjacent scarp was still yet to be planted as was committed to in the consent renewal application. STDC are now in the process of sourcing plants. STDC also carried out an inspection of this structure during the year under review. Their report was provided to Council on 30 June 2021.			
Survey based monitoring summary: Surveying in Middleton Bay is being carried out to identify impacts on coastal processes potentially caused by the seawall. STDC engaged a surveying contractor to carry out beach profile monitoring during the year. Five beach profile transects were surveyed in Middleton Bay in November 2020. In November 2019, a drone survey was undertaken for the entire Bay, and three of the five beach profile transects were also surveyed on the ground. This information was provided to Council on 30 June 2021. Survey results are yet to be reviewed by a suitably qualified professional; data review requirements, and the ongoing monitoring regime, are currently being finalised in an associated monitoring plan.			
Overall compliance assessment: Compliant (based on the information available as summarised above).			
Photos and figures: Middleton Bay seawall and beach access (9 June 2021).			
			
Bare scarp adjacent to seawall (9 June 2021).			
			

2.1.3 Opunake Bay boat ramp

A summary of the monitoring carried out in 2020-2021 is presented below, in Table 4.

Table 4 Opunake Bay boat ramp and breakwater monitoring summary 2020-2021

6791-1: Opunake Bay boat ramp and breakwater			
Council inspection date:	9 June 2021	STDC inspection date:	No inspection
Council inspection summary: No obvious changes from previous year. Rocks and boulders scattered across bottom of ramp. STDC did not carry out an inspection of these structures during the year under review.			
Survey based monitoring summary: Surveying in Opunake Bay is being carried out to identify impacts on coastal processes potentially caused by the rock breakwater (consent 6791-1) and beach protection structures (consent 4578-2). STDC engaged a surveying contractor to carry out beach profile monitoring during the year. Five beach profile transects were surveyed in Opunake Bay in November 2020. In November 2019, a drone survey was undertaken for the entire Bay, and three of the five beach profile transects were also surveyed on the ground. This information was provided to Council on 30 June 2021. Survey results are yet to be reviewed by a suitably qualified professional; data review requirements, and the ongoing monitoring regime, are currently being finalised in an associated monitoring plan.			
Overall compliance assessment: Compliant (based on the information available as summarised above).			
Photos and figures: Opunake Bay boat ramp and rock groyne (9 June 2021).			
			

2.1.4 Opunake Beach

A summary of the monitoring carried out in 2020-2021 is presented below, in Table 5.


Table 5 Opunake Beach protection structures and access ways monitoring summary 2020-2021

4578-2: Opunake Beach protection structures and access ways			
Council inspection date:	9 June 2021	STDC inspection date:	8 April 2021
Council inspection summary:			
<p>No obvious end effects or scouring associated with these structures. However, at the eastern end of the beach, the lattice wall structure had deteriorated significantly since the previous inspection. Parts of the wall were found strewn across the beach, leaving some of the concrete pylons unsupported (see photos below). This issue was also identified by STDC during their inspection rounds, and have subsequently secured funding to build a replacement structure. The Council made STDC aware that the structure was considered non-compliant with consent conditions in its current state, and that steps needed to be taken to mitigate the safety hazards that it posed. STDC's inspection report was provided to Council on 30 June 2021.</p>			
Survey based monitoring summary:			
<p>Surveying in Opunake Bay is being carried out to identify impacts on coastal processes potentially caused by the rock breakwater (consent 6791-1) and beach protection structures (consent 4578-2). STDC engaged a surveying contractor to carry out beach profile monitoring during the year. Five beach profile transects were surveyed in Opunake Bay in November 2020. In November 2019, a drone survey was undertaken for the entire Bay, and three of the five beach profile transects were also surveyed on the ground. This information was provided to Council on 30 June 2021. Survey results are yet to be reviewed by a suitably qualified professional; data review requirements, and the ongoing monitoring regime, are currently being finalised in an associated monitoring plan.</p>			
Overall compliance assessment:			
Non-compliant (based on the information available, as summarised above).			
Photos and figures:			
A section of the non-compliant lattice wall structure (9 June 2021).			
			

2.1.5 Kaupokonui

A summary of the monitoring carried out in 2020-2021 is presented below, in Table 7.


Table 6 Kaupokonui boulder rip rap monitoring summary 2020-2021

5983-2: Kaupokonui boulder rip rap			
Council inspection date:	8 June 2021	STDC inspection date:	8 April 2021
Council inspection summary: No obvious changes from the previous year. STDC also carried out an inspection of this structure during the year under review. Their report was provided to Council on 30 June 2021.			
Survey based monitoring summary: This structure has not been identified as requiring additional, survey based monitoring.			
Overall compliance assessment: Compliant (based on the information available, as summarised above).			
Photos and figures: Kaupokonui boulder rip rap (9 June 2021).			
			

2.1.6 Denby Road

A summary of the monitoring carried out in 2020-2021 is presented below, in Table 7.

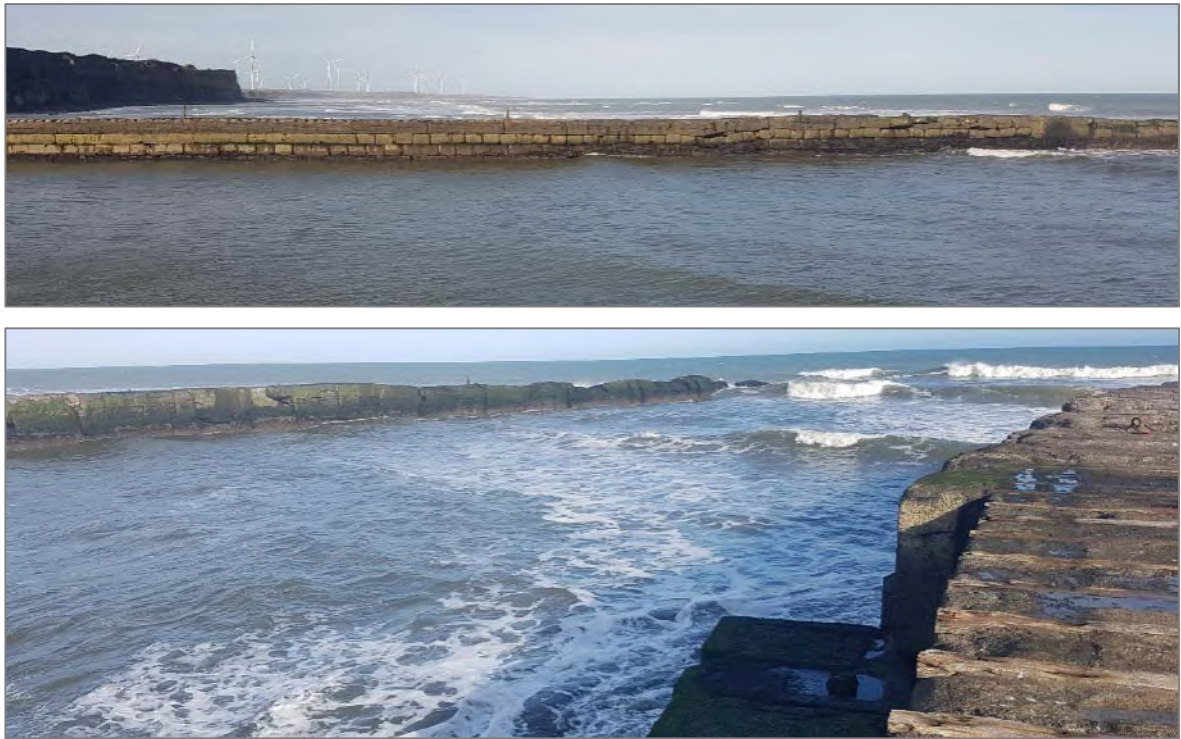
Table 7 Denby Road gabion mattress and access ramp monitoring summary 2020-2021

6736-1: Denby Road gabion mattress and access ramp			
Council inspection date:	8 June 2021	STDC inspection date:	8 April 2021
Council inspection summary: No obvious changes from previous year; structure remnants were removed in December 2019. Council inspections will be no longer be undertaken for this structure. STDC also carried out an inspection of this site during the year under review. Their report was provided to Council on 30 June 2021.			
Survey based monitoring summary: This site has not been identified as requiring additional, survey based monitoring.			
Overall compliance assessment: Structure has been removed. Compliance assessment no longer applicable.			
Photos and figures: Current beach access at Denby Road (Waihi Beach) (8 June 2021).			
			

2.1.7 Patea River mouth structures

A summary of the monitoring carried out in 2020-2021 is presented below, in Table 8.


Table 8 Patea River mouth structures monitoring summary 2020-2021

4573-2: Patea River mouth structures; 6839-1: Patea River training wall reinstatement			
Council inspection date:	8 June 2021	STDC inspection date:	8 April 2021
Council inspection summary:			
<p>No issues were identified with the Mana Bay seawall, half tide wall or the wave guide wall. Degradation of the moles was evident through slumping of the structures above the sea surface (particularly the south mole). STDC also carried out an inspection of this site during the year under review. Their report was provided to Council on 30 June 2021. STDC are currently investigating options for remediation of the mole structures. To help inform these repairs, a hydrographic survey is set to be carried out in the 2021-2022 summer period, when conditions are suitable.</p>			
Survey based monitoring summary:			
<p>Surveying the Patea River mouth and adjacent coast is being carried out to identify impacts on coastal processes potentially caused by the river mouth structures (consents 4573-2 and 6839-1). Surveying is set to commence in Spring 2021. Details around survey methods, data review and reporting are being finalised in an associated Monitoring Plan.</p>			
Overall compliance assessment:			
<p>Compliant (based on the information available, as summarised above). Further degradation of the mole structures may lead to non-compliance; particularly if the structures present increased navigational hazards.</p>			
Photos and figures:			
Southern mole at Patea River mouth (8 June 2021).			
			

2.1.8 Patea boat ramp

A summary of the monitoring carried out in 2020-2021 is presented below, in Table 9.


Table 9 Patea River boat ramp, jetty and rock wall monitoring summary 2020-2021

4566-2: Patea River boat ramp, jetty and rock wall			
Council inspection date:	8 June 2021	STDC inspection date:	14 January 2021
Council inspection summary: No obvious changes from the previous year. STDC also carried out an inspection of this structure during the year under review. Their report was provided to Council on 30 June 2021.			
Survey based monitoring summary: Surveying the Patea River channel is being carried out to identify erosional effects potentially caused by the rock walls either side of the boat ramp. Surveying is set to commence in Spring 2021. Details around survey methods, data review and reporting are being finalised in an associated Monitoring Plan.			
Overall compliance assessment: Compliant (based on the information available, as summarised above).			
Photos and figures: Patea boat ramp, jetty and downstream rock wall (8 June 2021).			
			

2.1.9 Patea wharf

A summary of the monitoring carried out in 2020-2021 is presented below, in Table 10.

Table 10 Patea wharf and boulder rip rap monitoring summary 2020-2021

4575-2: Patea wharf and boulder rip rap			
Council inspection date:	8 June 2021	STDC inspection date:	8 April 2021
Council inspection summary: No obvious changes from the previous year. The structure was no posing any increased navigational hazards at the time of the inspection. STDC also carried out an inspection of this structure during the year under review. Their report was provided to Council on 30 June 2021.			
Survey based monitoring summary: This structure has not been identified as requiring additional, survey based monitoring.			
Overall compliance assessment: Compliant (based on the information available, as summarised above).			
Photos and figures: Patea wharf, facing downstream (8 June 2021).			
			

2.1.10 Caves Beach access ramp

A summary of the monitoring carried out in 2020-2021 is presented below, in Table 11.

Table 11 Caves Beach access ramp monitoring summary 2020-2021

4579-2: Caves Beach access ramp			
Council inspection date:	8 June 2021	STDC inspection date:	8 April 2021
Council inspection summary: No obvious changes from the previous year. Structure is in a fairly degraded state but still appears to be providing safe access to the beach. STDC also carried out an inspection of this structure during the year under review. Their report was provided to Council on 30 June 2021.			
Survey based monitoring summary: This structure has not been identified as requiring additional, survey based monitoring.			
Overall compliance assessment: Compliant (based on the information available, as summarised above).			
Photos and figures: Caves Beach access ramp (8 June 2021).			
			

2.2 Incidents, investigations, and interventions

The monitoring programme for the year was based on what was considered to be an appropriate level of monitoring, review of data, and liaison with the consent holder. During the year matters may arise which require additional activity by the Council, for example provision of advice and information, or investigation of potential or actual causes of non-compliance or failure to maintain good practices. A pro-active approach, that in the first instance avoids issues occurring, is favoured.

For all significant compliance issues, as well as complaints from the public, the Council maintains a database record. The record includes events where the individual/organisation concerned has itself notified the Council. Details of any investigation and corrective action taken are recorded for non-compliant events.

Complaints may be alleged to be associated with a particular site. If there is potentially an issue of legal liability, the Council must be able to prove by investigation that the identified individual/organisation is indeed the source of the incident (or that the allegation cannot be proven).

Table 12 below sets out details of any incidents recorded, additional investigations, or interventions required by the Council in relation to STDC's coastal structures during the 2020-2021 period. This table presents details of all events that required further investigation or intervention regardless of whether these were found to be compliant or not.

Table 12 Incidents, investigations, and interventions summary table

Date	Details	Compliant (Y/N)	Enforcement Action Taken?	Outcome
09/06/21	A small, potentially unsafe, section of the Bayly Road seawall (5512-2) identified due to boulder size and repair slope.	N	No.	STDC were directed to undertake a qualified engineering assessment of the seawall, which has resulted in a plan for upcoming maintenance repairs.
09/06/21	Lattice wall at eastern end of Opunake Beach (4578-2) has deteriorated significantly, presenting potential safety hazards.	N	No.	STDC have secured funding to replace the lattice wall with a new structure. As an interim measure to mitigate any safety hazards, STDC have installed temporary fencing to isolate beach users from the damaged wall.

3 Discussion

3.1 Discussion of structure performance

The majority of coastal structures were compliant with consent conditions in the 2020-2021 monitoring period.

Additional rock was placed along the Bayly Road seawall to increase the profile of the wall where slumping had occurred in order to prevent further erosion of the scarp. Near the intersection of Bayly and Coast Roads, these repair works had considerably steepened the profile of the wall. STDC subsequently obtained an engineer's assessment which determined that further maintenance was required. This maintenance is scheduled to be undertaken.

The lattice wall at the eastern end of Opunake Beach was found to be in a state of disrepair and has been deemed non-compliant. STDC have secured funding to replace the lattice wall with a new structure. As an interim measure to mitigate any safety hazards, STDC has installed temporary fencing to isolate the wall from beach users.

Some of the remaining structures were also found in a damaged or degraded state, but were still compliant with consent conditions (e.g. the Patea wharf, Patea moles and Caves Beach access).

3.2 Environmental effects of exercise of consents

The dunes adjacent to the Middleton Bay seawall have been subjected to ongoing scour and erosion. It is unclear whether this erosion is attributed to end effects from the seawall structure, natural processes or a combination of the two factors. However, it was apparent that improvised pedestrian beach access had worsened the issue. The repair works and beach access installation at the northern end of the seawall appear to be helping to protect this section of the dunes.

No other structures had definitive adverse effects on their surrounding environments, based on the observations in June.

Not all of the structures currently included in this monitoring programme have the same potential to influence or affect coastal processes. Groynes/moles and seawalls, by design, have a measurable influence on coastal processes, whereas smaller structures such as boat ramps and beach access ways are not expected to have significant effects. Where impacts do occur, these effects can be gradual and difficult to discern from natural processes. In these instances, specific surveying methodologies are necessary to determine whether a structure is adversely affecting the coast.

A Monitoring Plan is being developed to ensure all coastal structures receive appropriate monitoring to detect potential impacts on the coast, going forward. A draft version of the plan has been provided to Council. The plan will be a working document that can be updated and revised as agreed upon by both STDC and Council. Details of monitoring sites, methodologies, frequencies, data analysis and reporting are included in the plan. The plan is yet to be finalised, however, data collection has begun with beach profile surveying already underway at Middleton Bay and Opunake Beach.

Further background regarding the rationale for this additional monitoring is set out in Section 3.5 of this compliance report.

3.3 Evaluation of performance

A summary of STDC's compliance record for the period under review is provided in Tables 13-23.

Table 13 Summary of performance for Consent 4566-2 at Patea

Purpose: To occupy the coastal marine area with a boat ramp and jetty		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Boat ramp and jetty to be maintained in a safe and sound condition	Inspections	Yes
2. Structure to be removed if no longer required		N/A
3. Optional review of consent	Next scheduled June 2022, if required	N/A
Overall assessment of environmental performance in respect of this consent		High
Overall assessment administrative performance in respect of this consent		High

N/A = not applicable

Table 14 Summary of performance for Consent 4573-2 at Patea

Purpose: To place and maintain training groynes, seawalls and training walls		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Authorises occupation and maintenance works of structures in the Patea River Mouth		N/A
2. Maintain the structures in a safe and sound state	Inspection	Yes
3. Optional review of consent	Next scheduled June 2022, if required	N/A
Overall assessment of environmental performance in respect of this consent		High
Overall assessment administrative performance in respect of this consent		High

N/A = not applicable

Table 15 Summary of performance for Consent 4575-2 at Patea

Purpose: To occupy the CMA with a derelict wharf		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Consent holder to maintain the 200 m of rip-rap in a safe and sound condition.	Inspections	Yes
2. Consent holder to maintain structure to minimum standards, preventing navigational hazards	Inspections	Yes
3. Optional review of consent	Next scheduled for June 2022, if required	N/A

Purpose: To occupy the CMA with a derelict wharf		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
Overall assessment of environmental performance in respect of this consent		High
Overall assessment administrative performance in respect of this consent		High

N/A = not applicable

Table 16 Summary of performance for Consent 4578-2 at Opunake Beach

Purpose: To occupy coastal space with retaining walls and associated structures		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Consent holder to maintain structure to satisfaction of Council	Inspections	No
2. Annual recording of the condition of the structure and surrounds	Inspections	Yes
3. Structure to be removed if no longer required		N/A
4. Review	Next scheduled for June 2024, if required	N/A
Overall assessment of environmental performance in respect of this consent		Good
Overall assessment administrative performance in respect of this consent		High

N/A = not applicable

Table 17 Summary of performance for Consent 4579-2 at Caves Beach

Purpose: To occupy the CMA with a public access ramp		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Consent holder to maintain ramp to satisfaction of Council	Inspections	Yes
2. 24 hours notification required prior to undertaking maintenance works		N/A
3. Optional review of consent	Next scheduled for June 2022, if required	N/A
Overall assessment of environmental performance in respect of this consent		High
Overall assessment administrative performance in respect of this consent		High

N/A = not applicable

Table 18 Summary of performance for Consent 5504-2 at Middleton Bay

Purpose: To occupy the CMA with an existing boulder rip rap seawall		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Any change to the scale or nature of the structure must be authorised		N/A
2. Consent holder to maintain the structure in a safe and sound state	Site inspections	Yes
3. The structure shall not increase erosion or coastal hazard risk	Monitoring methodology in development	N/A
4. Consent holder to undertake a visual inspection once per year and following large storm events	Consent holder correspondence (doc. 2530742)	Yes
5. Optional review of consent	Next scheduled for June 2024, if required	N/A
Overall assessment of environmental performance in respect of this consent		High
Overall assessment administrative performance in respect of this consent		High

N/A = not applicable

Table 19 Summary of performance for Consent 5512-2 at Bayly Road

Purpose: To occupy the CMA with a boulder rip rap seawall		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Any change to the scale or nature of the structure must be authorised	Inspection	Yes
2. Structure is maintained in a safe and sound condition	Inspection	Pending assessment
3. Review	Next scheduled for June 2025, if required	N/A
Overall assessment of environmental performance in respect of this consent		High
Overall assessment administrative performance in respect of this consent		High

N/A = not applicable

Table 20 Summary of performance for Consent 5983-2 at the Kaupokonui Stream

Purpose: To occupy the true left bank of the Kaupokonui Stream with a rock rip rap		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Any change to scale or nature of structure to require formal authorisation	No change	N/A
2. Structure shall be maintained in safe and sound condition	Site inspections	Yes

Purpose: To occupy the true left bank of the Kaupokonui Stream with a rock rip rap		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
3. Notification when undertaking maintenance	No maintenance undertaken	N/A
4. Review	Next scheduled for June 2023, if required	N/A
Overall assessment of environmental performance in respect of this consent		High
Overall assessment administrative performance in respect of this consent		High

N/A = not applicable

Table 21 Summary of performance for Consent 6736-1 at Denby Road

Purpose: To erect, place and maintain a gabion mattress		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Best practicable option to minimise environmental effects	Inspections	N/A
2. 48 hours notification required prior to construction and maintenance works		N/A
3. Exercise of consent in accordance with documentation submitted in application		N/A
4. Lapse of consent 5 years after date of issue if not actioned		N/A
5. Optional review of consent	No further reviews	N/A
Overall assessment of environmental performance in respect of this consent		N/A
Overall assessment administrative performance in respect of this consent		N/A

N/A = not applicable

Table 22 Summary of performance for Consent 6791-1 at Opunake Bay

Purpose: To erect, place and maintain a boat ramp and rock breakwater		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Exercise of consent in accordance with documentation submitted in application	Site inspections	Yes
2. 48 hours notification required prior to construction and upon completion of maintenance works	No maintenance undertaken during period under review	N/A
3. Best practicable option to minimise environmental effects	Site inspections	Yes
4. Volume and area of disturbance minimised		N/A

Purpose: To erect, place and maintain a boat ramp and rock breakwater		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
5. No re-fuelling of machinery in coastal marine area		N/A
6. Optional review of consent	No further reviews	N/A
Overall assessment of environmental performance in respect of this consent		High
Overall assessment administrative performance in respect of this consent		High

N/A = not applicable

Table 23 Summary of performance for Consent 6839-1 at Patea

Purpose: To reinstate training wall		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Best practicable option to minimise environmental effects		N/A
2. Exercise of consent in accordance with documentation submitted in application	Site inspections	Yes
3. Written notification 7 days prior to exercise of consent		N/A
4. No re-fuelling of machinery in coastal marine area		N/A
5. Activity to comply with noise standards		N/A
6. Signage for public safety during construction and maintenance		N/A
7. Volume and area of disturbance minimised and area disturbed reinstated		N/A
8. Consent holder to liaise with Kohanga Reo regarding traffic movements		N/A
9. Lapse on 5 years if not actioned		N/A
10. Structure to be removed if no longer required		N/A
11. Optional review of consent	No further reviews until expiration of consent	N/A
Overall assessment of environmental performance in respect of this consent		High
Overall assessment administrative performance in respect of this consent		High

N/A = not applicable

Table 24 Evaluation of environmental performance over time

Year	High	Good	Improvement req	Poor
2011	-	✓	-	-
2012	✓	-	-	-
2013 + 2014	-	✓	-	-
2015	-	✓	-	-
2016	-	✓	-	-
2017	-	✓	-	-
2018	-	✓	-	-
2019	-	✓	-	-
2020	✓	-	-	-
2021	✓	-	-	-
Totals	3	7	0	0

During the period under review, overall STDC demonstrated a high level of environmental and high level of administrative performance with the resource consents as defined in Section 1.1.4.

3.4 Recommendations from the 2019-2020 Annual Report

In the 2019-2020 Annual Report, it was recommended:

1. THAT in the first instance, monitoring of STDC coastal structures in the 2020-2021 year be amended from that undertaken in 2019-2020, by developing and implementing an additional survey component to assess compliance with special condition three of resource consent 5504-2.
2. THAT until an alternative monitoring regime is developed and agreed upon between Council and STDC (see Section 3.3), coastal structure monitoring shall continue as set out in recommendations 3 to 6, below.
3. THAT an annual site visit is carried out by Council staff on all coastal structures in the South Taranaki district. These visits should include photographs from pre-determined photo control points.
4. THAT additional visits and photographs should be taken by Council staff following any alterations or additions, and after major storms.
5. THAT STDC should notify the Council via email to worknotification@trc.govt.nz prior to and following any maintenance work on coastal structures.
6. THAT STDC should provide a summary of maintenance of coastal structures on an annual basis (preferably at the end of the monitoring period in July).
7. THAT should there be issues with environmental or administrative performance in 2020-2021, monitoring may be adjusted to reflect any additional investigation or intervention as found necessary.

These recommendations were implemented during the monitoring period under review.

3.5 Alterations to monitoring programmes for 2021-2022

In designing and implementing the monitoring programmes for air/water discharges in the region, the Council has taken into account:

- the extent of information already made available through monitoring or other means to date;

- its relevance under the RMA;
- the Council's obligations to monitor consented activities and their effects under the RMA;
- the record of administrative and environmental performances of the consent holder; and
- reporting to the regional community.

The Council also takes into account the scope of assessments required at the time of renewal of permits, and the need to maintain a sound understanding of industrial processes within Taranaki exercising resource consents.

It is proposed that for 2021-2022, a number of changes are made to the Council's monitoring programme; as summarised below in Table 25.

Table 25 Summary of monitoring changes

Structure	Proposed monitoring changes
Minor structures (e.g. boat ramps and associated structures)	<ul style="list-style-type: none"> • Decrease frequency of routine Council inspections and reporting to biennial.
Protection structures (riverine)*	<ul style="list-style-type: none"> • Decrease frequency of routine Council inspections and reporting to biennial.
Protection structures (open coast)	<ul style="list-style-type: none"> • Continue annual Council inspection regime • Biennial reporting.

* With the exception of the rock walls associated with the Patea boat ramp and jetty (4566-2)

The frequency of inspections and reporting for minor structures including boat ramps will be decreased to biennial. As has been shown by the results of this monitoring programme over the past 13 years, the environmental effects of these structures in the CMA are not sufficient to warrant annual inspections and reporting. It is expected that STDC also carry out their own inspections to ensure that these structures are maintained in alignment with resource consent requirements.

Bridges, groynes and rock walls in riverine locations will also now be inspected and reported on a biennial basis as part of the Council's monitoring programme. Although these structures are larger in size and can potentially influence physical processes, the consequences of these effects in riverine environments are not the same as those on the open coast. As such, equivocal riverine based structures located outside of the CMA are not routinely inspected and reported on as they are in this programme. As per the minor structures, STDC are expected to carry out their own inspections to ensure that these structures are maintained in alignment with resource consent requirements. An exception to this is the rock wall associated with the Patea boat ramp and jetty, which is scheduled for survey based monitoring to determine whether it is affecting river flow and causing scour. The Council will continue to inspect this structure on an annual basis.

Groynes and rock walls and their surrounding environs in open coast locations will be subjected to annual surveying (as outlined in Table 25), unless the Council determines that the effects of the structure are likely to be negligible. These structures can directly influence coastal processes, however, as stated earlier, these effects can be gradual and difficult to discern from natural processes. For these reasons, specific surveying methodologies are necessary to determine whether a structure is adversely affecting coastal processes.

This reduction of Council monitoring and reporting is being recommended in conjunction with the increased monitoring that is being carried out by STDC. STDC's additional monitoring will be set out in the Monitoring Plan (once finalised), and documented in the next compliance report. To summarise, STDC are now carrying out annual inspections of their consented coastal structures, as well as survey based

monitoring (i.e. beach profiles, topographic surveys, and bathymetric surveys) for significant structures at varying frequencies going forward.

3.6 Exercise of optional review of consent

Resource consent 4573-2 provides for an optional review of the consent in June 2022. Condition 3 allows the Council to review the consent, if there are grounds that the conditions are currently inadequate to prevent adverse environmental effects from occurring.

Based on the results of monitoring in the year under review, and in previous years as set out in earlier annual compliance monitoring reports, it is considered necessary that a review is pursued for resource consent 4573-2. This consent is currently inadequate to prevent adverse environmental effects as it does not necessitate appropriate monitoring to determine the effects of the structures.

4 Recommendations

1. THAT monitoring of the STDC coastal structures shall be undertaken in accordance with the requirements set out in Section 3.5 of this Compliance Report, and as stipulated in the Draft Monitoring Plan provided to Council on 30 June 2021 (TRC document 2813897).
2. THAT the Denby Road (Waihi Beach) beach access structure is no longer monitored and reported on, on the basis that the structure has been removed.
3. THAT STDC shall comply with Rule 36 (Structure maintenance, minor alteration or minor extension) in the Proposed Coastal Plan for Taranaki if maintenance is required on any consented coastal structures.
4. THAT should there be issues with environmental or administrative performance in 2021-2022, monitoring may be adjusted to reflect any additional investigation or intervention as found necessary.
5. THAT the option for a review of resource consent 4573-2 in June 2022, as set out in condition 3 of the consent, be exercised, on the grounds that the consent is currently inadequate to prevent adverse environmental effects as it does not necessitate appropriate monitoring to determine the effects of the structures.

Glossary of common terms and abbreviations

The following abbreviations and terms are used within this report:

CMA	Coastal Marine Area.
Incident	An event that is alleged or is found to have occurred that may have actual or potential environmental consequences or may involve non-compliance with a consent or rule in a regional plan. Registration of an incident by the Council does not automatically mean such an outcome had actually occurred.
Incident register	Contains a list of events recorded by the Council on the basis that they may have the potential or actual environmental consequences that may represent a breach of a consent or provision in a Regional Plan.
Intervention	Action/s taken by Council to instruct or direct actions be taken to avoid or reduce the likelihood of an incident occurring.
Investigation	Action taken by Council to establish what were the circumstances/ events surrounding an incident including any allegations of an incident.
Lithology	The scientific study of rocks.
MLWS	Mean low water springs, the lowest of the low tides.
Mole	A massive structure, usually of stone, used as a pier, jetty, breakwater, or junction between places separated by water.
Resource consent	Refer Section 87 of the RMA. Resource consents include land use consents (Sections 9 and 13 of the RMA), coastal permits (Sections 12, 14 and 15), water permits (Section 14) and discharge permits (Section 15).
Revetment	Structures placed on banks or cliffs in such a way as to absorb the energy of incoming water.
Rip rap	A type of revetment style using loose but interlocked boulders.
RMA	Resource Management Act 1991 and subsequent amendments.

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Appendix I

Resource consents held by STDC

(For a copy of the signed resource consent
please contact the TRC Consents department)

Coastal permits

Section 12(1)(b) of the RMA stipulates that no person may erect, reconstruct, place, alter, extend, remove, or demolish any structure that is fixed in, on, under, or over any foreshore or seabed, unless the activity is expressly allowed for by a resource consent, a rule in a regional plan, or by national regulations. Coastal permits are issued by the Council under Section 87(c) of the RMA.

Coastal Permit
Pursuant to the Resource Management Act 1991
a resource consent is hereby granted by the
Taranaki Regional Council

Name of
Consent Holder: South Taranaki District Council
Private Bag 902
HAWERA 4640

Consent Granted
Date: 23 June 2010

Conditions of Consent

Consent Granted: To occupy the coastal marine area with a boat ramp and
jetty in the lower Patea River at or about (NZTM)
1727515E-5596787N

Expiry Date: 1 June 2028

Review Date(s): June 2016, June 2022

Site Location: Patea Beach Settlement, Turi Street, Patea

Legal Description: Adjacent to Pt Lot 6 DP 648 Blk VI Carlyle SD

Catchment: Tasman Sea
Patea

General condition

- a. The consent holder shall pay to the Taranaki Regional Council [the Council] all the administration, monitoring and supervision costs of this consent, fixed in accordance to section 36 of the Resource Management Act.

Special conditions

1. The consent holder shall maintain the structure in a safe and sound condition, so that it continues to function effectively as an access ramp.
2. The structures authorised by this consent shall be removed and the area reinstated, if and when the structures are no longer required. A further resource consent may be required to authorise removal of the structures and the consent holder is advised to seek advice from the Council on this matter.
3. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2016 and/or June 2022 for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 23 June 2010

For and on behalf of
Taranaki Regional Council

Director-Resource Management

**Coastal Permit
Pursuant to the Resource Management Act 1991
a resource consent is hereby granted by the
Taranaki Regional Council**

Name of Consent Holder: South Taranaki District Council
Private Bag 902
Hawera 4640

Decision Date: 7 June 2016

Commencement Date: 7 June 2016

Conditions of Consent

Consent Granted: To occupy the coastal marine area of the Patea River mouth with the following existing structures the:

- River Mouth Training Groynes, comprising the North mole (west) and South mole (east);
- Rock Training Wall;
- Mana Bay Seawall;
- Wave Guide Wall; and
- Carlyle Beach Rock Protection Works

Expiry Date: 1 June 2034

Review Date(s): June 2022, June 2028

Site Location: Patea River Mouth, Patea

Grid Reference (NZTM) 1727464E-5596442N to 1727575E-5596430N
(Mana bay Seawall)
1727537E-5596353N to 1727584E-5596471N
(Wave Guide Wall)
1727575E-5596430N to 1727605E-5596621N
(Carlyle Beach Wall)
1727645E-5596408N to 1727684E-5596835N
(Rock Training Wall)
1727645E-5596408N to 1727390E-5596098N (East Mole)
1727367E-5596176N to 1727464E-5596442N (West Mole)

Catchment: Patea
Tasman Sea

*For General, Standard and Special conditions
pertaining to this consent please see reverse side of this document*

General condition

- a. The consent holder shall pay to the Taranaki Regional Council all the administration, monitoring and supervision costs of this consent, fixed in accordance with section 36 of the Resource Management Act, 1991.

Special conditions

1. This consent authorises the occupation and associated maintenance works, in the coastal management area, for the existing structures at the Patea River Mouth including the:
 - River mouth training groynes;
 - Rock training wall;
 - Mana Bay Seawall;
 - Wave Guide Wall; and
 - Carlyle Beach Rock Protection Works.
2. The consent holder shall maintain the structure in a safe and sound state so that it continues to function effectively for its intended purpose.
3. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2022 and/or June 2028 for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 7 June 2016

For and on behalf of
Taranaki Regional Council

A D McLay
Director - Resource Management

Coastal Permit
Pursuant to the Resource Management Act 1991
a resource consent is hereby granted by the
Taranaki Regional Council

Name of
Consent Holder: South Taranaki District Council
Private Bag 902
HAWERA 4640

Consent Granted
Date: 23 June 2010

Conditions of Consent

Consent Granted: To occupy the coastal marine area with a derelict wharf
and 200 metres of rock rip-rap on the true left bank of the
Patea River at or about (NZTM) 1727237E-5597970N

Expiry Date: 1 June 2028

Review Date(s): June 2016, June 2022

Site Location: Portland Quay, Patea

Legal Description: Adjacent to Lot G DP 2739

Catchment: Tasman Sea
Patea

General condition

- a. The consent holder shall pay to the Taranaki Regional Council [the Council] all the administration, monitoring and supervision costs of this consent, fixed in accordance to section 36 of the Resource Management Act.

Special conditions

1. The consent holder shall maintain the 200 metres of rock rip-rap in a safe and sound condition, so that it continues to function effectively as a coastal protection structure.
2. The consent holder shall maintain the derelict wharf in an intact state to the extent that no part of it becomes a navigational hazard.
3. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2016 and/or June 2022 for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 23 June 2010

For and on behalf of
Taranaki Regional Council

Director-Resource Management

Coastal Permit
Pursuant to the Resource Management Act 1991
a resource consent is hereby granted by the
Taranaki Regional Council

Name of
Consent Holder: South Taranaki District Council
Private Bag 902
HAWERA 4640

Decision Date: 29 October 2012

Commencement
Date: 29 October 2012

Conditions of Consent

Consent Granted: To occupy coastal space with retaining walls and associated accessway structures in the coastal marine area of Opunake Beach between (NZTM) 1673576E-5632109N and 1673836E-5631940N

Expiry Date: 1 June 2030

Review Date(s): June 2018, June 2024

Site Location: Beach Road, Opunake

Legal Description: Rec reserve adjacent to Secs 1-7 Blk XLVII Tn of Opunake (Site of structure)

Catchment: Tasman
Hihiwera

*For General, Standard and Special conditions
pertaining to this consent please see reverse side of this document*

General condition

- a. The consent holder shall pay to the Taranaki Regional Council all the administration, monitoring and supervision costs of this consent, fixed in accordance with section 36 of the Resource Management Act 1991.

Special Conditions

1. The consent holder shall maintain the structures in a safe and sound condition, so that they continue to function effectively as retaining structures and accessways, to the satisfaction of the Chief Executive, Taranaki Regional Council.
2. The consent holder shall record annually the condition of the structures and the immediate surrounding area.

Note: Compliance with special condition 2 would be achieved by taking photographs at appropriate sites annually. This work will be undertaken by the Taranaki Regional Council through the monitoring programme.

3. The structures authorised by this consent shall be removed and the area reinstated, if and when the structures are no longer required. A further resource consent may be required to authorise removal of the structures and the consent holder is advised to seek advice from the Taranaki Regional Council on this matter.
4. The Taranaki Regional Council may review any or all of the conditions of this consent by giving notice of review during the month of June 2018, and/or June 2024, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects of the structures on the environment, arising from the exercise of this consent.

Signed at Stratford on 29 October 2012

For and on behalf of
Taranaki Regional Council

Director-Resource Management

Coastal Permit
Pursuant to the Resource Management Act 1991
a resource consent is hereby granted by the
Taranaki Regional Council

Name of
Consent Holder: South Taranaki District Council
Private Bag 902
HAWERA 4640

Consent Granted
Date: 23 June 2010

Conditions of Consent

Consent Granted: To occupy the coastal marine area with a public access
ramp at or about (NZTM) 1740080E-5589471N

Expiry Date: 1 June 2028

Review Date(s): June 2016, June 2022

Site Location: Caves Beach, Waverley

Legal Description: Lot 1 DP 9646

Catchment: Tasman Sea

General condition

- a. The consent holder shall pay to the Taranaki Regional Council [the Council] all the administration, monitoring and supervision costs of this consent, fixed in accordance to section 36 of the Resource Management Act.

Special conditions

1. The consent holder shall maintain the structure in a safe and sound condition, so that it continues to function effectively as an access ramp.
2. The structures authorised by this consent shall be removed and the area reinstated, if and when the structures are no longer required. A further resource consent may be required to authorise removal of the structures and the consent holder is advised to seek advice from the Council on this matter.
3. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2016 and/or June 2022 for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 23 June 2010

For and on behalf of
Taranaki Regional Council

Director-Resource Management

Coastal Permit
Pursuant to the Resource Management Act 1991
a resource consent is hereby granted by the
Taranaki Regional Council

Name of
Consent Holder: South Taranaki District Council
Private Bag 902
Hawera 4640

Decision Date 29 August 2019

Commencement Date 29 August 2019

Conditions of Consent

Consent Granted: To occupy the coastal marine area of the Middleton Bay foreshore with an existing boulder riprap seawall, for erosion protection purposes

Expiry Date: 1 June 2036

Review Date(s): June 2024, June 2030

Site Location: Middleton Bay Reserve, Opunake

Grid Reference (NZTM) Between 1673036E-5632356N & 1673031E-5632472N

Catchment: Tasman Sea

*For General, Standard and Special conditions
pertaining to this consent please see reverse side of this document*

General condition

- a. The consent holder shall pay to the Taranaki Regional Council all the administration, monitoring and supervision costs of this consent, fixed in accordance with section 36 of the Resource Management Act 1991.

Special conditions

1. This consent authorises the occupation of space in the Coastal Marine Area by the protection structure existing at the time the application for this consent was lodged, and as described in the application. Any change to the nature or scale of the structure may need to be authorised by a formal process in accordance with the Resource Management Act, 1991.
2. The consent holder shall maintain the structure in a safe and sound state such that:
 - a. it does not fall into a state of disrepair and continues to function effectively for the purpose it was designed;
 - b. its structural integrity is maintained; and
 - c. there is no settlement or loss of foundation material.
3. The structure shall not:
 - a. cause erosion that is greater than that assessed when determining the application for this consent; or
 - b. significantly increase the coastal hazard risk.
4. The consent holder shall undertake a visual inspection of the structure at least once a year, and immediately following a large storm event. Within 20 working days of the inspection, the consent holder shall provide a report to the Chief Executive, Taranaki Regional Council that addresses the matters in conditions 2 and 3 above.
5. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2024 and/or June 2030, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 29 August 2019

For and on behalf of
Taranaki Regional Council

A D McLay
Director - Resource Management

**Coastal Permit
Pursuant to the Resource Management Act 1991
a resource consent is hereby granted by the
Taranaki Regional Council**

Name of
Consent Holder: South Taranaki District Council
Private Bag 902
Hawera 4640

Decision Date: 4 February 2016

Commencement Date: 4 February 2016

Conditions of Consent

Consent Granted: To occupy the Coastal Marine Area with a boulder rip rap seawall on the foreshore at Bayly Road Beach for coastal erosion protection purposes

Expiry Date: 1 June 2031

Review Date(s): June 2019, June 2025

Site Location: Coast Road, Pungarehu

Legal Description: Lot 1 DP 16474 (Site of structure)

Grid Reference (NZTM) 1666948E-5655952N

Catchment: Tasman Sea

*For General, Standard and Special conditions
pertaining to this consent please see reverse side of this document*

General condition

- a. The consent holder shall pay to the Taranaki Regional Council all the administration, monitoring and supervision costs of this consent, fixed in accordance with section 36 of the Resource Management Act, 1991.

Special conditions

1. This consent authorises the occupation of space in the Coastal Marine Area by the protection structure existing at the time the application for this consent was lodged, and as described in the application. Any change to the nature or scale of the structure may therefore need to be authorised by a formal process in accordance with the Resource Management Act, 1991.
2. The consent holder shall maintain the structure in a safe and sound condition, so that it continues to function effectively. Maintenance shall include removing any backfill material displaced onto the foreshore.
3. The Taranaki Regional Council may review any or all of the conditions of this consent by giving notice of review during the month of June 2019 and/or June 2025, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects of the structures on the environment, arising from the exercise of this consent.

Signed at Stratford on 4 February 2016

For and on behalf of
Taranaki Regional Council

A D McLay
Director - Resource Management

**Coastal Permit
Pursuant to the Resource Management Act 1991
a resource consent is hereby granted by the
Taranaki Regional Council**

Name of Consent Holder: South Taranaki District Council
Private Bag 902
Hawera 4640

Decision Date: 30 January 2018

Commencement Date: 30 January 2018

Conditions of Consent

Consent Granted: To occupy the coastal space associated with rock riprap on the true left bank of the Kaupokonui Stream within the Coastal Marine Area for erosion control purposes

Expiry Date: 1 June 2035

Review Date(s): June 2023, June 2029

Site Location: 13b Kaupokonui Heads Road, Kaupokonui

Grid Reference (NZTM) Between 1691144E-5619995N & 1691146E-5619813N

Catchment: Kaupokonui

*For General, Standard and Special conditions
pertaining to this consent please see reverse side of this document*

General condition

- a. The consent holder shall pay to the Taranaki Regional Council all the administration, monitoring and supervision costs of this consent, fixed in accordance with section 36 of the Resource Management Act, 1991.

Special conditions

1. This consent authorises the ongoing use and occupation of the protection structure existing at the time the application for this consent was lodged, and as described in the application. Any change to the nature or scale of the structure may therefore need to be authorised by a formal process in accordance with the Resource Management Act, 1991.
2. The consent holder shall maintain the structure in a safe and sound condition such that it continues to function effectively as a protection structure.
3. The consent holder shall notify the Chief Executive, Taranaki Regional Council, in writing at least 1 working day prior to the commencement of any maintenance work. Notification shall include the consent number and a brief description of the activity consented and be emailed to worknotification@trc.govt.nz.
4. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2023 and/or June 2029, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 30 January 2018

For and on behalf of
Taranaki Regional Council

A D McLay
Director - Resource Management

Coastal Permit
Pursuant to the Resource Management Act 1991
a resource consent is hereby granted by the
Taranaki Regional Council

Name of
Consent Holder: South Taranaki District Council
Private Bag 902
HAWERA 4800

Consent Granted
Date: 5 December 2005

Conditions of Consent

Consent Granted: To erect, place and maintain a gabion mattress at Denby Road beach for erosion control and beach access purposes at or about GR: Q21:165-769

Expiry Date: 1 June 2025

Review Date(s): June 2013, June 2019

Site Location: Denby Road, Hawera

Legal Description: Pt Lot 1 DP 4663 Pt Lot 1 DP 1399 Pt Sec 107 Patea Dist
Blk IX Hawera SD

Catchment: Tasman Sea

General conditions

- a) On receipt of a requirement from the Chief Executive, Taranaki Regional Council the consent holder shall, within the time specified in the requirement, supply the information required relating to the exercise of this consent.
- b) Unless it is otherwise specified in the conditions of this consent, compliance with any monitoring requirement imposed by this consent must be at the consent holder's own expense.
- c) The consent holder shall pay to the Council all required administrative charges fixed by the Council pursuant to section 36 in relation to:
 - i) the administration, monitoring and supervision of this consent; and
 - ii) charges authorised by regulations.

Special conditions

1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent.
2. The consent holder shall notify the Chief Executive, Taranaki Regional Council, at least 48 hours prior to commencement and upon completion of the initial construction and again at least 48 hours prior to and upon completion of any subsequent maintenance works which would involve disturbance of the foreshore.
3. The exercise of this consent shall be undertaken generally in accordance with the documentation submitted in support of application 3983. In the case of any contradiction between the documentation submitted in support of application 3983 and the conditions of this consent, the conditions of this consent shall prevail.
4. This consent shall lapse on the expiry of five years after the date of issue of this consent, unless the consent is given effect to before the end of that period or the Taranaki Regional Council fixes a longer period pursuant to section 125(1)(b) of the Resource Management Act 1991.

Consent 6736-1

5. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2013 and/or June 2019, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 5 December 2005

For and on behalf of
Taranaki Regional Council

Director-Resource Management

Coastal Permit
Pursuant to the Resource Management Act 1991
a resource consent is hereby granted by the
Taranaki Regional Council

Name of
Consent Holder: South Taranaki District Council
Private Bag 902
HAWERA 4640

Change To
Conditions Date: 12 March 2008 [Granted: 5 December 2005]

Conditions of Consent

Consent Granted: To erect, place and maintain a gabion mattress for erosion control purposes, and a public access ramp to provide emergency access, in the coastal marine area at Waihi Beach at or about 2616532E-6176982N

Expiry Date: 1 June 2025

Review Date(s): June 2013, June 2019

Site Location: Waihi Beach, Denby Road, Hawera

Legal Description: Foreshore adjacent to Lot 26 DP 4663 Lots 1 & 2 DP 20924 Pt Sec 107 Patea Dist Blk IX Hawera SD

Catchment: Tasman Sea

Consent 6736-1

General conditions

- a) On receipt of a requirement from the Chief Executive, Taranaki Regional Council the consent holder shall, within the time specified in the requirement, supply the information required relating to the exercise of this consent.
- b) Unless it is otherwise specified in the conditions of this consent, compliance with any monitoring requirement imposed by this consent must be at the consent holder's own expense.
- c) The consent holder shall pay to the Council all required administrative charges fixed by the Council pursuant to section 36 in relation to:
 - i) the administration, monitoring and supervision of this consent; and
 - ii) charges authorised by regulations.

Special conditions

Condition 1 - unchanged

1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent.

Conditions 2 and 3 - changed

2. The consent holder shall notify the Chief Executive, Taranaki Regional Council, at least 48 hours prior to commencement and upon completion of the initial construction and again at least 48 hours prior to and upon completion of any subsequent maintenance works which would involve disturbance of the foreshore. Notification shall include the consent number and a brief description of the activity consented and be emailed to worknotification@trc.govt.nz. Notification by fax or post is acceptable only if the consent holder does not have access to email.
3. The exercise of this consent shall be undertaken generally in accordance with the documentation submitted in support of applications 3983 and 4923. In the case of any contradiction between the documentation submitted in support of applications 3983, 4923 and the conditions of this consent, the conditions of this consent shall prevail.

Conditions 4 and 5 - unchanged

4. This consent shall lapse on the expiry of five years after the date of issue of this consent, unless the consent is given effect to before the end of that period or the Taranaki Regional Council fixes a longer period pursuant to section 125(1)(b) of the Resource Management Act 1991.

Consent 6736-1

5. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2013 and/or June 2019, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 12 March 2008

For and on behalf of
Taranaki Regional Council

Director-Resource Management

Coastal Permit
Pursuant to the Resource Management Act 1991
a resource consent is hereby granted by the
Taranaki Regional Council

Name of
Consent Holder: South Taranaki District Council
Private Bag 902
HAWERA 4800

Consent Granted
Date: 22 December 2005

Conditions of Consent

Consent Granted: To erect, place and maintain a boat ramp and rock
breakwater in the coastal marine area off the northern
headland of Opunake Bay at or about GR: P20:830-936

Expiry Date: 1 June 2024

Review Date(s): June 2012, June 2018

Site Location: Northern Headland, Opunake Bay, Opunake

Legal Description: Lot 2 DP 9250 Secs 1-3 SO 13535 Pt Sub Sec 1 Town of
Opunake - Pt Utility Res Secs 1-3 SO 13535 Esplanade
Res

Catchment: Tasman Sea

General conditions

- a) On receipt of a requirement from the Chief Executive, Taranaki Regional Council the consent holder shall, within the time specified in the requirement, supply the information required relating to the exercise of this consent.
- b) Unless it is otherwise specified in the conditions of this consent, compliance with any monitoring requirement imposed by this consent must be at the consent holder's own expense.
- c) The consent holder shall pay to the Council all required administrative charges fixed by the Council pursuant to section 36 in relation to:
 - i) the administration, monitoring and supervision of this consent; and
 - ii) charges authorised by regulations.

Special conditions

1. The exercise of this consent shall be undertaken generally in accordance with the documentation submitted in support of application 4084. In the case of any contradiction between the documentation submitted in support of application 4084 and the conditions of this consent, the conditions of this consent shall prevail.
2. The consent holder shall notify the Chief Executive, Taranaki Regional Council, in writing at least 48 hours prior to the commencement and upon completion of the initial works, and again at least 48 hours prior to and upon completion of any subsequent maintenance works which would involve disturbance of or deposition to the seabed or discharges to water.
3. The consent holder shall undertake all practicable measures to prevent the discharge or placement of silt and/or organics and/or cement products and/or any other contaminant into the sea, and to minimise the disturbance of the foreshore and seabed.
4. The consent holder shall ensure that the area and volume of foreshore and seabed disturbance shall, so far as practicable, be minimised and any areas which are disturbed shall, so far as practicable, be reinstated.
5. There shall be no refuelling of construction machinery within the coastal marine area.

Consent 6791-1

6. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2012 and/or June 2018, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 22 December 2005

For and on behalf of
Taranaki Regional Council

Director-Resource Management

Coastal Permit
Pursuant to the Resource Management Act 1991
a resource consent is hereby granted by the
Taranaki Regional Council

Name of
Consent Holder: South Taranaki District Council
Private Bag 902
HAWERA 4800

Consent Granted
Date: 24 April 2006

Conditions of Consent

Consent Granted: To reinstate approximately 160 metres of the Patea River training wall for river protection purposes on the true left bank of the Patea River mouth at or about GR: Q22:376-581

Expiry Date: 1 June 2022

Review Date(s): June 2010, June 2016

Site Location: Patea River Mouth, Patea

Legal Description: Secs 140, 161 & 162 Whenuakura Dist Blk VII Carlyle SD

Catchment: Tasman Sea
Patea

General conditions

- a) On receipt of a requirement from the Chief Executive, Taranaki Regional Council the consent holder shall, within the time specified in the requirement, supply the information required relating to the exercise of this consent.
- b) Unless it is otherwise specified in the conditions of this consent, compliance with any monitoring requirement imposed by this consent must be at the consent holder's own expense.
- c) The consent holder shall pay to the Council all required administrative charges fixed by the Council pursuant to section 36 in relation to:
 - i) the administration, monitoring and supervision of this consent; and
 - ii) charges authorised by regulations.

Special conditions

1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent.
2. The exercise of this consent shall be undertaken generally in accordance with the documentation submitted in support of application 4149. In the case of any contradiction between the documentation submitted in support of application 4149 and the conditions of this consent, the conditions of this consent shall prevail.
3. The consent holder shall notify the Chief Executive, Taranaki Regional Council, in writing at least seven days prior to the exercise of this consent.
4. There shall be no refuelling of construction machinery within the coastal marine area.
5. The construction, use, maintenance and removal of the structure authorised by this consent shall comply with the noise standards as outlined within section 4.4.3 of the Regional Coastal Plan for Taranaki.
6. During construction and maintenance periods the area subject to works shall have sufficient signage to ensure public safety of any potential safety hazards.
7. The consent holder shall ensure that the area and volume of foreshore disturbance shall, so far as practicable, be minimised and any areas which are disturbed shall, so far as practicable, be reinstated.
8. The consent holder shall liaise with the local Kohanga Reo located at the marae on Lower Koharoa Road on a weekly basis to notify them of traffic movements.

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9. This consent shall lapse on the expiry of five years after the date of issue of this consent, unless the consent is given effect to before the end of that period or the Taranaki Regional Council fixes a longer period pursuant to section 125(1)(b) of the Resource Management Act 1991. Upon completion of construction the consent holder shall submit as built plans of the structure if different to those submitted in support of application 4149.
10. The structure authorised by this consent shall be removed and the area reinstated, if and when the structure is no longer required. The consent holder shall notify the Chief Executive, Taranaki Regional Council, in writing at least seven days prior to the structures removal and reinstatement.
11. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2010 and/or June 2016, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 24 April 2006

For and on behalf of
Taranaki Regional Council

Director-Resource Management

