

# South Taranaki District Council Water Supplies

Monitoring Programme

Annual Report

2022-2023

Technical Report 2023-26



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Taranaki Regional Council  
Private Bag 713  
Stratford

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March 2024

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## Executive summary

The South Taranaki District Council (STDC) operates a total of ten water treatment plants (WTPs) which supply municipal water to the district's towns and water to the rural communities.

This report for the period July 2022 to June 2023 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. The report also details the results of the monitoring undertaken and assesses the environmental effects of STDC's activities.

**During the monitoring period, STDC demonstrated a good level of environmental performance and high level of administrative performance.**

STDC holds 33 resource consents which include 302 conditions setting out the requirements that must be satisfied. STDC holds 15 consents to take water, ten consents to discharge to both land and water, and eight consents to construct and maintain in-stream structures.

The Council's monitoring programme for the year under review included ten inspections, the collection of eight water samples for physicochemical analysis, three biomonitoring surveys of receiving waters, and one fish survey. Abstraction, stream flow and discharge data provided by the consent holder was analysed and reviewed.

Discharge volume data showed that STDC were non-compliant for discharges at both the Ōpunake and Waimate West WTPs. However, there were mitigating factors beyond STDC's control as the higher than consented discharges for the Ōpunake WTP were in relation to taking water when the Waiaua River was in high flow conditions. Therefore, there was unlikely to be any noticeable change in the river in either volume or water quality, as the volume of water discharged was small compared to the flow in the river. Council are working with STDC to resolve these compliance issues. By comparison with previous years, the monitoring indicated that STDC had an improvement in their performance in terms of discharge volumes to water from both WTP's.

Chemical sampling of discharges and receiving waters and macroinvertebrate surveys indicated that the water supply schemes were not causing any adverse environmental effects. However, due to the low numbers of fish and fish species recorded during the fish survey in the Mangawhero-iti Stream, it was difficult to make any strong conclusions regarding whether the weir and the fish passage presented a restriction to the passage of fish.

For reference, in the 2022-2023 year, consent holders were found to achieve a high level of environmental performance and compliance for 878 (87%) of a total of 1007 consents monitored through the Taranaki tailored monitoring programmes, while for another 96 (10%) of the consents a good level of environmental performance and compliance was achieved. A further 27 (3%) of consents monitored required improvement in their performance, while the remaining one (<1%) achieved a rating of poor.

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 remains at a good level in the year under review.

This report includes recommendations for the 2023-2024 year, including a recommendation relating to an optional review of consents 0213-4, 0232-4, 5574-2 and 9473-1 in June 2024.





## Table of contents

		Page
1	Introduction	1
1.1	Compliance monitoring programme reports and the Resource Management Act 1991	1
1.1.1	Introduction	1
1.1.2	Structure of this report	1
1.1.3	The Resource Management Act 1991 and monitoring	1
1.1.4	Evaluation of environmental performance	2
1.2	Resource consents and process description	2
1.3	Monitoring programme	9
1.3.1	Introduction	9
1.3.2	Programme liaison and management	9
1.3.3	Site inspections	9
1.3.4	Results of receiving environment monitoring	9
1.3.5	Review of abstraction and discharge data	9
1.3.6	Hydrological monitoring	9
1.3.7	Review of reports required by consents	10
2	Results	11
2.1	Water	11
2.1.1	Site inspections	11
2.1.2	Results of receiving environment monitoring	13
2.1.2.1	Results of discharge monitoring	13
2.1.2.1.1	Kapuni WTP	13
2.1.2.1.2	Inaha WTP	14
2.1.2.1.3	Waimate West WTP	15
2.1.2.2	Water quality discharge data review	16
2.1.3	Results of receiving environment monitoring	16
2.1.3.1.1	Kapuni Stream macroinvertebrate survey (Hāwera WTP)	17
2.1.3.1.2	Waimate West WTP macroinvertebrate survey (Mangawhero-iti Stream)	18
2.1.3.1.3	Waiaua River macroinvertebrate survey (Ōpunake WTP)	20
2.1.3.2	Fish survey	21
2.1.3.2.1	Mangawhero-iti Stream – Waimate West WTP	21
2.1.4	Abstraction and discharge data review	23
2.1.5	Hydrological monitoring	25

2.1.6	Leak detection and water conservation	26
2.1.7	Leak detection and repairs	26
2.1.8	Water use efficiency and conservation measures	27
2.2	Incidents, investigations, and interventions	28
3	Discussion	29
3.1	Discussion of site performance	29
3.2	Environmental effects of exercise of consents	29
3.3	Evaluation of performance	30
3.3.1	Eltham WTP	30
3.3.2	Hāwera WTP	32
3.3.3	Inaha WTP	36
3.3.4	Ōpunake WTP	40
3.3.5	Pātea WTP	42
3.3.6	Rahotu WTP	44
3.3.7	Waiinu Beach water supply	45
3.3.8	Waimate West WTP	46
3.3.9	Waverley water supply	51
3.3.10	Waverley Beach water supply	52
3.4	Recommendations from the 2021-2022 Annual Report	53
3.5	Alterations to monitoring programmes for 2023-2024	53
3.6	Exercise of optional review of consent	54
4	Recommendations	55
	Glossary of common terms and abbreviations	56
	Bibliography and references	58
	Appendix I Resource consents held by STDC	
	Appendix II Categories used to evaluate environmental and administrative performance	

## List of tables

Table 1	South Taranaki water supplies resource consents and processes	3
Table 2	Kapuni WTP sample results, 31 January 2023	13
Table 3	Kapuni WTP sample results, 09 June 2023	13
Table 4	Inaha WTP backwash discharge sample results (STW002070), 1 February 2023	14
Table 5	Waimate WTP backwash discharge sample results (STW002069), 1 February 2023	15

Table 6	STDC's discharge self-monitoring water quality summary	16
Table 7	Summary of abstraction data compliance	23
Table 8	STDC's discharge self-monitoring water quantity summary	24
Table 9	Summary of flow gauging's conducted	25
Table 10	Groundwater level and stream flow compliance summary	26
Table 11	Summary of leak detection and repairs between 1 July 2022 and 30 June 2023	26
Table 12	Water efficiency measures	27
Table 13	Summary of performance for Consent 0213-4 (Eltham WTP)	30
Table 14	Summary of performance for Consent 0989-3 (Eltham WTP)	31
Table 15	Summary of performance for Consent 1811-4 (Eltham WTP)	32
Table 16	Summary of performance for Consent 0146-2 (Hāwera WTP)	32
Table 17	Summary of performance for Consent 0933-3 (Hāwera WTP)	33
Table 18	Summary of performance for Consent 7002-1 (Hāwera WTP)	34
Table 19	Summary of performance for Consent 7413-1 (Hāwera WTP)	34
Table 20	Summary of performance for Consent 7446-1 (Hāwera WTP)	35
Table 21	Summary of performance for Consent 7447-1 (Hāwera WTP)	36
Table 22	Summary of performance for Consent 1185-3 (Inaha WTP)	36
Table 23	Summary of performance for Consent 1186-3 (Inaha WTP)	37
Table 24	Summary of performance for Consent 3927-3 (Inaha WTP)	38
Table 25	Summary of performance for Consent 3928-3 (Inaha WTP)	38
Table 26	Summary of performance for Consent 4102-2 (Inaha WTP)	39
Table 27	Summary of performance for Consent 5365-2 (Inaha WTP)	39
Table 28	Summary of performance for Consent 0232-4 (Ōpunake WTP)	40
Table 29	Summary of performance for Consent 5574-2 (Ōpunake WTP)	41
Table 30	Summary of performance for Consent 9473-1 (Ōpunake WTP)	41
Table 31	Summary of performance for Consent 3388-3.1 (Pātea Bores) – To 6 October 2022	42
Table 32	Summary of performance for Consent 3388-3.2 (Pātea Bores) – From 6 October 2022	43
Table 33	Summary of performance for Consent 3696-3 (Rahotu WTP)	44
Table 34	Summary of performance for Consent 6038-2 (Rahotu WTP)	44
Table 35	Summary of performance for Consent 3770-3 (Waiinu WTP)	45
Table 36	Summary of performance for Consent 0129-3 (Waimate West WTP)	46
Table 37	Summary of performance for Consent 0634-3 (Waimate West WTP)	46
Table 38	Summary of performance for Consent 0635-3 (Waimate West WTP)	47
Table 39	Summary of performance for Consent 3911-3 (Waimate West WTP)	48
Table 40	Summary of performance for Consent 4446-2 (Pope WTP)	49

Table 41	Summary of performance for Consent 4826-3 (Waimate West WTP)	49
Table 42	Summary of performance for Consent 5451-2 (Waimate West WTP)	50
Table 43	Summary of performance for Consent 5452-2 (Waimate West WTP)	50
Table 44	Summary of performance for Consent 10370-1 (Waimate West WTP)	51
Table 45	Summary of performance for Consent 3313-3 (Waverley bores)	51
Table 46	Summary of performance for Consent 9563-1 (Waverley Beach supply)	52

## List of figures

Figure 1	Location of STDC central and western resource consents	7
Figure 2	Location of STDC's southern consent	8
Figure 3	Aerial photo showing sampling site locations for the Kapuni WTP	14
Figure 4	Aerial photo showing filter backwash sampling site for the Inaha WTP	15
Figure 5	Aerial photo showing filter backwash sampling site for the Waimate West WTP	16
Figure 6	MCI results recorded in the Kapuni Stream in relation to the Hāwera WTP, 3 March 2023	17
Figure 7	MCI results recorded in the Mangawhero-iti Stream in relation to the Waimate West WTP, 28 March 2023	19
Figure 8	MCI results recorded in the Waiaua River in relation to the Ōpunake WTP, 05 April 2023	20

## List of photos

Photo 1	Fish pass on the STDC weir in the Mangawhero-iti Stream	21
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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 2022 to June 2023 by the Council on the monitoring programme associated with resource consents for ten water treatment plants (WTP's) operated by the South Taranaki District Council (STDC).

The report includes the results and findings of the monitoring programme implemented by the Council in respect of the consents held by STDC, that relate to abstractions and discharges of water, and in-stream structures. This is the 25th annual report to be prepared by the Council to cover STDC's water supply schemes.

### 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 in relation to the WTPs;
- the nature of the monitoring programme in place for the period under review; and
- a description of the activities and operations conducted at each of STDC's sites..

**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 2023-2024 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); and
- 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' in as much 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 performance

Besides discussing the various details of the performance and extent of compliance by the consent holders, this report also assigns a rating as to each of STDC's environmental and administrative performance during the period under review. The rating categories are high, good, improvement required and poor for both environmental and administrative performance. The interpretations for these ratings are found in Appendix II.

For reference, in the 2022-2023 year, consent holders were found to achieve a high level of environmental performance and compliance for 878 (87%) of a total of 1007 consents monitored through the Taranaki tailored monitoring programmes, while for another 96 (10%) of the consents a good level of environmental performance and compliance was achieved. A further 27 (3%) of consents monitored required improvement in their performance, while the remaining one (<1%) achieved a rating of poor.<sup>1</sup>

## 1.2 Resource consents and process description

STDC holds various resource consents including water abstraction permits, discharge permits and land use consents for various water supply plants and structures that they operate. These resource consents and their processes are listed in Table 1 and their locations are shown in Figures 1 and 2. Copies of all resource consents held in relation to water supply plants and structures in the South Taranaki District are included in Appendix I.

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<sup>1</sup> The Council has used these compliance grading criteria for more than 19 years. They align closely with the 4 compliance grades in the MfE Best Practice Guidelines for Compliance, Monitoring and Enforcement, 2018

Table 1 South Taranaki water supplies resource consents and processes

Water Supply Scheme	Consent No	Description	Expiry Date	Next Review Date	Process
Eltham WTP	0213-4	To take and use water from the Waingongoro River for municipal water supply purposes	1 June 2035	June 2024	Raw water is abstracted via a screened intake gallery located on the bank of a pool in the river and piped to the water treatment plant. Polyaluminium chloride (PAC) is added and the water passes through a clarifier and sand filters. The water is pH buffered (sodium bicarbonate) and chlorinated. Backwash from the filters is discharged via one of two settling ponds to a drain which flows to an unnamed tributary of the Waingongoro River. This scheme services both domestic and industrial users in Eltham.
	0989-3	To discharge reservoir contents from the Eltham Water Supply Reservoir onto land adjacent to the Waingongoro River	1 June 2029	-	
	1811-4	To discharge filter backwash from the Eltham WTP via a settling pond into an unnamed tributary of the Waingongoro River	1 June 2035	June 2029	
Hāwera water supply (Kapuni WTP)	0146-2	To take and use water from the Kapuni Stream for municipal water supply purposes	Expired-Section 124 protection	-	Raw water is abstracted from the Kapuni Stream via a screened intake structure and gravity fed to the WTP. It passes through grit tanks and flocculant is added before it goes into a flocculation tank. It then is pumped through strainers before going through the membrane filters. The water is pH adjusted using caustic soda, chlorinated, and fluoride is added before going to the site reservoirs. Membrane backwash water is discharged via two settling ponds to the Kapuni Stream. The discharge water is de-chlorinated and pH adjusted before it goes to the ponds. This scheme supplies water to Hāwera, as well as Normanby, and Ohawe. It also supplies water to rural users and to industry.
	0933-3	To discharge up to 227 m <sup>3</sup> /day of settling pond supernatant from a WTP into the Kapuni Stream	Expired-Section 124 protection	-	
	7002-1	To take and use up to 4,320 m <sup>3</sup> /day of groundwater at a maximum rate of 50 l/s as a combined total from up to three water bores in a bore field at the Kapuni reservoir site for municipal, rural, industrial, and recreational supply purposes	Expired-Section 124 protection	-	
	7413-1	To erect, use and maintain a water intake structure on the bed of the Kapuni Stream, including temporary damming and diversion during construction	Expired-Section 124 protection	-	
	7446-1	To discharge membrane backwash water and cleaning wastewater from the Kapuni WTP into the Kapuni Stream	Expired-Section 124 protection	-	

Water Supply Scheme	Consent No	Description	Expiry Date	Next Review Date	Process
	7447-1	To install, use and maintain an outfall structure on the bank of the Kapuni Stream for the Kapuni WTP	Expired-Section 124 protection	-	
Inaha WTP	1185-3.1	To take water from the Mangatoki Stream in the Waingongoro catchment for Inaha rural water supply purposes	Expired-Section 124 protection	-	Raw water is abstracted from two intake structures (weirs) on the Mangatoki Stream and a single intake on the Waingongoro River. Water is gravity fed and pumped to a settling pond and then to the treatment plant. PAC is added and the water is passed through two sand filters. The water is pH buffered (sodium bicarbonate) and chlorinated. Filter backwash is discharged to a small settling pond, then to an unnamed tributary of the Mangatoki Stream via a natural pond. This schemes supplies water to rural users from Kaponga across to Eltham and down to Matapu and Te Roti.
	1186-3.0	To take water from the Waingongoro River for Inaha rural water supply purposes	Expired-Section 124 protection	-	
	3927-3.0	To discharge backwash wastewater from the Inaha Rural WTP into an unnamed tributary of the Mangatoki Stream	1 June 2035	June 2029	
	3928-3.0	To discharge uncontaminated overflow water from the Inaha Rural Water Supply Treatment Plant via a settlement pond into an unnamed tributary of the Mangatoki Stream	1 June 2035	June 2029	
	4102-2	To maintain an existing low-level weir and fish pass across the Mangatoki Stream in the Waingongoro catchment	Expired-Section 124 protection	-	
	5365-2.0	To dam water and use a low level intake weir in the Mangatoki Stream for Inaha rural water supply scheme purposes	1 June 2035	June 2029	
Ōpunake WTP	0232-4	To take and use water from the Waiaua River for Ōpunake town water supply purposes	1 June 2030	June 2024	Water is abstracted via a submerged screened intake structure and is pumped to the adjacent WTP where it is membrane filtered and chlorinated. This scheme supplies water to the Ōpunake township and approximately 22 rural users.
	5574-2	To discharge water treatment residuals, and pond drainage water from the Ōpunake WTP into the Waiaua River	1 June 2030	June 2024	



Water Supply Scheme	Consent No	Description	Expiry Date	Next Review Date	Process
	9473-1	To construct, place and use a water intake structure on the bed of the Waiaua River for water abstraction purposes	1 June 2030	June 2024	
Pātea Water Supply	3388-3.2	To take and use groundwater from four bores (known as Bore 1, Bore 4, Bore 5 and 6) for Pātea Township water supply purposes	1 June 2028	-	Groundwater is pumped from bores 1, 4, 5 and 6 and then sent to reticulation. There is an option to chlorinate the water if necessary. This schemes supplies water to the Pātea township.
Rahotu WTP	3696-3	To take and use water from the Pungaereere Stream for the Rahotu community water supply	1 June 2031	June 2025	Raw water is abstracted through two pumps via a screened intake structure from a pool in the Pungaereere Stream to an adjacent settling tank, where PAC is added. Water is gravity fed from the settling tank to a pressure sand filter. Filtered water is then chlorinated. Water is stored in two 100 m <sup>3</sup> reservoirs to supply the Rahotu township, rural users and local industry.
	6038-2	To discharge filter backwash water and settling tank waste from the Rahotu WTP into the Pungaereere Stream	1 June 2037	June 2025	
Waiinu Beach Supply	3770-3	To take and use groundwater for Waiinu Beach water supply purposes	1 June 2028	-	Groundwater is pumped from a bore, chlorinated and UV treated, and then pumped to 6 reservoirs which have storage capacity of 125 m <sup>3</sup> . The scheme is used for low pressure domestic, limited watering and firefighting.
Waimate West WTP	0129-3.2	To discharge treated wash water from the Waimate West water supply scheme into an unnamed tributary of Kelly's Creek	Expired-Section 124 protection	-	Raw water is abstracted from the Otakeho Stream and piped directly to the Waimate West WTP. This take is the primary source of water for this scheme. Raw water is also diverted from the Mangawhero Stream into the Mangawhero-iti Stream. Water is then abstracted from the Mangawhero-iti Stream and gravity fed to the WTP. When sufficient water can be abstracted from the Otakeho and Mangawhero-iti streams in the scheme and still provide for sufficient flows downstream,
	0634-3	To take water from the Mangawhero-iti Stream for the Waimate West water supply	Expired-Section 124 protection	-	
	0635-3	To take water from the Mangawhero Stream for the purpose of adding to the flow of the Mangawhero-iti Stream and providing water for the Waimate West water supply	Expired-Section 124 protection	-	

Water Supply Scheme	Consent No	Description	Expiry Date	Next Review Date	Process
	10370-1.0	To take and use groundwater for Waimate West water supply purposes	1 June 2035	-	<p>water from the Mangawhero Stream is avoided due to its turbidity.</p> <p>PACL and flocculant are added and the water passes through a clarifier and sand filters. The water is pH buffered (soda ash) and chlorinated (chlorine gas).</p> <p>On average the clarifier is bled every six hours and each of the four filters are backwashed once per day. Clarifier bleed and filter backwash are discharged via one of two settling ponds to an unnamed tributary of the Mangawhero-iti Stream.</p> <p>A groundwater bore has been commissioned to top up supply during periods of peak demand and stream low flow restrictions.</p> <p>This scheme supplies water to the Kaponga and Manaia townships and approximately 815 rural users.</p>
	3911-3.0	To take and use water from the Otakeho Stream for the Pope and Waimate West water supply schemes	Expired-Section 124 protection	-	
	4446-2	To discharge treated backwash water from the Pope Rural Water Supply Treatment Plant into an unnamed tributary of the Mangawhero Stream in the Kaupokonui catchment	Expired-Section 124 protection	-	
	4826-3.0	To dam water and use a weir and water intake structure on the bed of the Otakeho Stream	1 June 2035	June 2029	
	5451-2.0	To dam water and use a water intake structure on the bed of the Mangawhero-iti Stream for water abstraction purposes	1 June 2035	June 2029	
	5452-2.0	To dam water and use a weir, a water intake structure and a swing bridge on/over the bed of the Mangawhero Stream for water abstraction	1 June 2035	June 2029	
Waverley Water Supply	3313-3	To take and use groundwater from the "Fookes Street" bore (GND0244), the "Chester Street" bore (GND0059) and the "Swinbourne Street" bore (GND2242) for municipal water supply purposes at Waverley	Expired-Section 124 protection	-	<p>Groundwater is pumped from the bores, which tap a confined aquifer in the Whenuakura formation. The water passes through a sand trap, and is then fluoridated, gas chlorinated and UV treated prior to entering the reservoirs for distribution. The water is then supplied via a gravity main to the distribution system and consumers in the town.</p>
Waverley Beach	9563-1	To take and use groundwater for Waverley Beach water supply purposes	1 June 2028	-	<p>Groundwater is pumped from a bore to a reservoir for distribution. It is not chlorinated.</p>

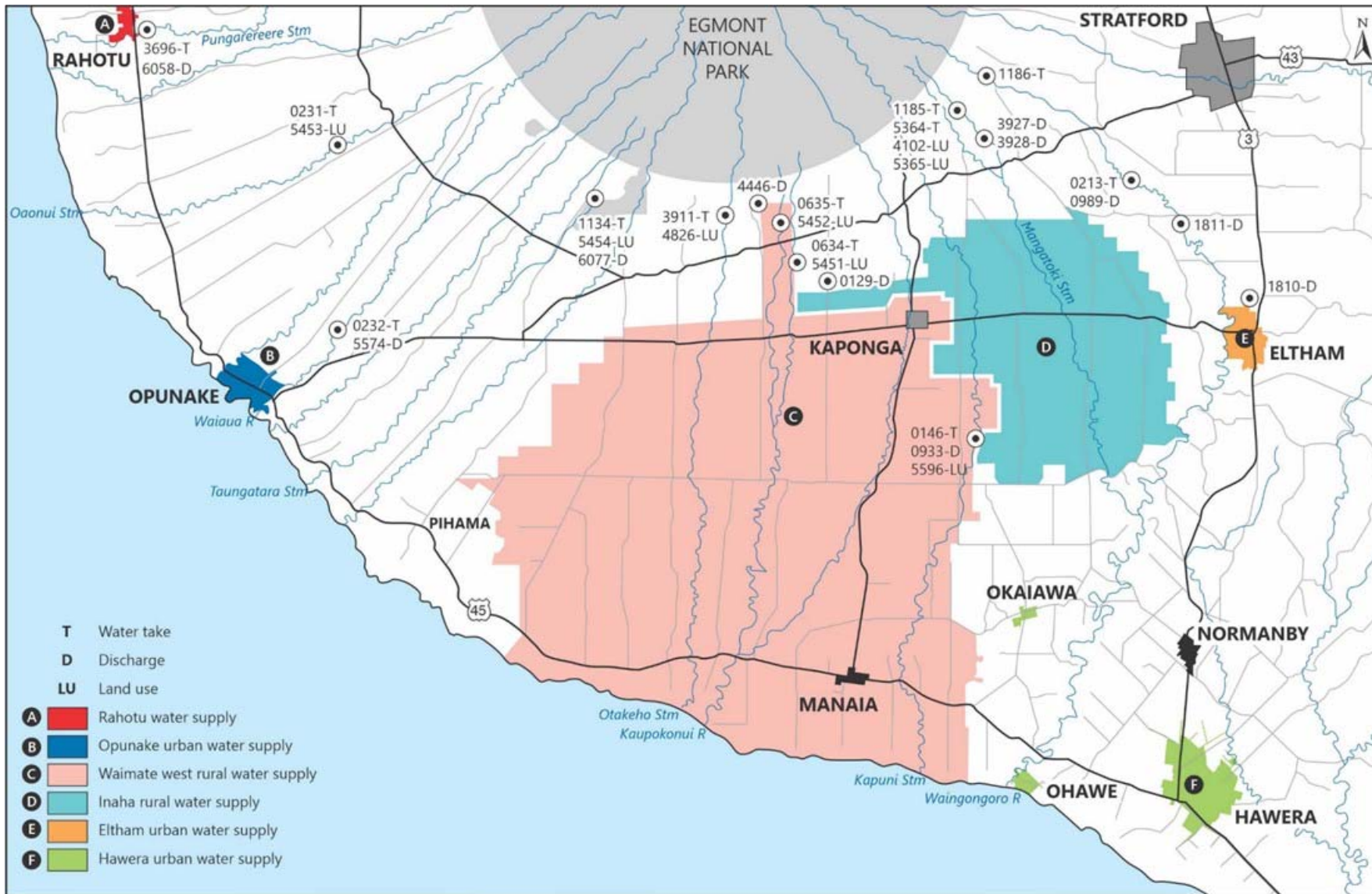


Figure 1 Location of STDC central and western resource consents



Figure 2 Location of STDC's southern consent

## 1.3 Monitoring programme

### 1.3.1 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 water supply schemes consisted of five primary components.

### 1.3.2 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;
- 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.

### 1.3.3 Site inspections

A total of ten inspections were undertaken. The inspections focussed on intake structures, fish passage, water metering, abstraction rates and plant discharges.

### 1.3.4 Results of receiving environment monitoring

The Council undertook receiving water samples and sampling of discharges, to audit check STDC's sampling from the Kapuni, Inaha, and Waimate West WTPs. While STDC provided self-monitoring discharge sampling data to the Council that was collected throughout the monitoring year. This was reviewed by Council staff to ensure contaminant concentrations complied with consent conditions.

Macroinvertebrate surveys were undertaken in relation to the Hāwera, Waimate West and Ōpunake WTPs to determine effects upon the stream communities due to the discharge of filter backwash and/or abstractions. A fish survey was undertaken in relation to the Waimate West WTP to assess whether the water/weir intake structures restricted fish passage.

### 1.3.5 Review of abstraction and discharge data

STDC provided abstraction data to the Council throughout the monitoring year. This was reviewed by Council staff to ensure abstraction volumes and rates complied with consent conditions. Also provided were the discharge volumes for Hāwera, Ōpunake and Waimate West WTP's.

### 1.3.6 Hydrological monitoring

Hydrological monitoring was undertaken in relation to the Hāwera, Eltham, Rahotu and Waimate West WTP's in order to check flows and maintain ratings curves. Data review of the groundwater level data recorded by STDC was also undertaken.

### 1.3.7 Review of reports required by consents

Water conservation and leak detection reports are required by a number of the water take consents held by STDC. These are reviewed to ensure that the consent holder is using water efficiently, detecting and minimising leaks and enforcing conservation measures to minimise water use in times of high demand.

## 2 Results

### 2.1 Water

#### 2.1.1 Site inspections

An annual inspection of Waiinu Beach, Waverley, Waverley Beach, Pātea and Hāwera WTPs was conducted on 31 January 2023. An inspection of the Inaha and Waimate West WTPs was conducted on 1 February 2023. An inspection of the Eltham, Rahotu and Ōpunake WTPs was conducted on 3 February 2023.

##### 31 January 2023

###### **Waiinu Beach WTP**

The bore and reservoir tanks were inspected, with no concerns noted. Water was being abstracted at the time of the inspection. Water quality was measured. pH: 7.77, free available chlorine: 0.67 mg/L.

###### **Waverley WTP**

The Swinbourne Street bore was abstracting at the rate of 30 m<sup>3</sup>/hr at the time of the inspection, which was in compliance with consent conditions. The Chester Street and Fookes Street bores were not operating.

###### **Waverley Beach WTP**

An inspection of the WTP and the existing bore, which is exercised under the permitted take rule, were found to be ok. Abstraction at the time of the inspection was 1.3 m<sup>3</sup>/hr. Water quality was measured. pH: 7.99, free available chlorine: 0.94 mg/L.

###### **Pātea WTP**

The four Pātea bores currently used were inspected with no issues noted. Reservoir Level = 73.2%. Bore 6 was running sporadically at 7 m<sup>3</sup>/hr. Bore 1 Reservoir level: 106.4m. Bore 5 was running sporadically at 14 m<sup>3</sup>/hr. Bore 4 was running at 22.1 m<sup>3</sup>/hr.

###### **Hāwera WTP**

The intake weir and fish pass was inspected, the river was clear and uncoloured. The river was flowing unobstructed over the weir and through the fish pass. Two logs were jammed near the structure. The river intake was pumping at 400 m<sup>3</sup>/hr. The treated outlet was flowing at 345 – 350m<sup>3</sup>/hr. The bore was not operating at the time of the inspection. When operating the abstraction is approximately 80 m<sup>3</sup>/hr.

The top pond was discharging, at a rate of approximately 10-20 L/s. The colour of the pond was green/brown. A field sample was taken of the discharge, which recorded a free available chlorine level of 0.24 mg/L, which was considered non-compliant. The total chlorine in the field was 0.07 mg/L.

The bottom pond was relatively empty. Discharge from the backwash settling ponds was estimated at 5 – 7 L/s. The southern backwash lagoon was isolated and empty. Samples were taken from above and below the receiving waters, and included a backwash discharge sample. The river was clear and uncoloured below the mixing zone from the discharge. Water quality limits for the discharge sample were breached for free available chlorine and pH.

##### 1 February 2023

###### **Inaha WTP**

The two intake weirs on the Mangatoki Stream were inspected, with water flowing freely over the weirs and fish passes. Water was clear and uncoloured.

The Waingongoro intake screen was clear, and water abstraction from the combined intakes was 99.7 m<sup>3</sup>/hr. At the WTP, the lower pond was pumping to the upper pond via a petrol pump. The upper pond was discharging at a rate of 10-20 L/s. The discharge was clear and uncoloured. The lower pond was low and laden with sediment. No issues were noted around the plant.

#### **Waimate West WTP**

The intake weir on the Mangawhero-iti Stream was open and clear of debris, with the fish pass unobscured and water flowing freely over the weir. Abstraction was occurring at 260 m<sup>3</sup>/hr.

Otakeho intake was open and clear of debris. There was steel rebar that was protruding. The fish pass was unobscured and water was flowing freely over the weir. The fish screen was working well. The staff gauge was broken and needed replacement.

The Mangawhero intake was not being used at the time of the inspection. The water was slightly turbid and brown, while the fish pass was unobstructed. The weir was flowing freely and the intake was clear. The retaining wall/rock cage was starting to collapse into the river. At the WTP, the bottom settling pond was discharging to the river. A discharge sample was collected at the time.

#### **3 February 2023**

#### **Eltham WTP**

The intake from the river and the fish pass was clear of debris. The flow was moderately high and slightly turbid. The abstraction at the time of the inspection was 140.5 m<sup>3</sup>/hr. Dosing was occurring at the time of the inspection. Backwashing was occurring onsite. The old pond was nearly empty and was not discharging.

#### **Rahotu WTP**

The river was clear and uncoloured and the intake was clear. The abstraction at the time of the inspection was 5 m<sup>3</sup>/hr. The backwash was clear and uncoloured and was discharging through a PVC pipe at a flow of approximately 1-3 L/s. The settling pond was turbid green and had some scum on the surface. Reservoir level was at 94%. The storage tanks were in good condition. Water quality was measured. Free available chlorine: 0.8 mg/L, turbidity: 0.133 NTU, pH: 7.52.

#### **Ōpunake WTP**

Steps to the intake were newly constructed. Concrete step to protect intake screen was in good condition and appeared to be protecting the screen well. Rock wall on both banks were holding up well. No slumping. The river was slightly turbid, with a grey-green colour, with moderate to high flows. Raw water intake was occurring at 40.8 m<sup>3</sup>/hr. Raw water turbidity: 0.49 NTU. The lower pond was empty, and upper pond was turbid brown. The upper pond was discharging at time of the inspection.

Pond 1 was nearly empty and not discharging. Pond 2 was relatively full and discharging. The circular settling tank was discharging to the pond and wetland. No issues were noted.



## 2.1.2 Results of receiving environment monitoring

### 2.1.2.1 Results of discharge monitoring

#### 2.1.2.1.1 Kapuni WTP

Receiving water and discharge samples were taken on two occasions at the Kapuni WTP (Figure 3) on the 31 January and again on the 9 June 2023. These results are presented in Table 2 and Table 3.

Table 2 Kapuni WTP sample results, 31 January 2023

Parameter	Unit	Upstream (KPN000300)	Pond discharge (STW002080)	Downstream (KPN000301)	Consent limits for discharge
Free available chlorine	g/m <sup>3</sup>	-	<b>0.24</b>	-	0.1
Conductivity @ 25°C	mS/m	9.0	20.3	9.0	-
Sodium	g/m <sup>3</sup>	7.2	33	7.6	-
pH	pH	7.5	<b>9.0</b>	7.5	6.5 – 8.5
Suspended solids	g/m <sup>3</sup>	-	6	-	20
Temperature	Deg C	16.7	18.8	16.7	-
Turbidity	NTU	0.77	1.69	0.96	-

Table 3 Kapuni WTP sample results, 09 June 2023

Parameter	Unit	Upstream (KPN000300)	Pond discharge (STW002080)	Downstream (KPN000301)	Consent limits for discharge
Free available chlorine	g/m <sup>3</sup>	-	<0.07	-	0.1
Conductivity @ 25°C	mS/m	11.1	14.7	11.1	-
Sodium	g/m <sup>3</sup>	9.0	14.7	8.9	-
pH	pH	7.5	7.7	7.5	6.5 – 8.5
Suspended solids	g/m <sup>3</sup>	-	5	-	20
Temperature	Deg C	-	-	-	-
Turbidity	NTU	0.56	0.60	0.56	

The free available chlorine and pH results from the 31 January sampling were both above consented limits. Discussion with STDC occurred following the findings of these results, with STDC undertaking follow up sampling. It appeared to be an outlier compared to STDC's self-monitoring. STDC initiated more frequent sampling to ensure continued compliance.

While the consent does not limit sodium, it is of particular interest due to the use of chemicals such as sodium hypochlorite, sodium hydroxide and sodium bisulphate in the WTP process. Ballance Agri-Nutrients and Vector both have discharges that occur upstream of the WTP, which have limits placed on their consents for sodium. The WTP discharge will continue to be regularly monitored for sodium to establish whether it is making a significant contribution to sodium loadings in the Kapuni Stream.



Figure 3 Aerial photo showing sampling site locations for the Kapuni WTP

#### 2.1.2.1.2 Inaha WTP

A sample of the Inaha WTP filter backwash discharge was collected on one occasion during the monitoring period. The results of the sample are presented in Table 4, with the location shown in Figure 4. The results of the sample complied with the conditions of consent 3927-3.

Table 4 Inaha WTP backwash discharge sample results (STW002070), 1 February 2023

Parameter	Unit	Results	Consent limits for discharge
pH	pH	7.1	6 - 9
Suspended solids	g/m <sup>3</sup>	6	20
Temperature	Deg C	15.7	-
Turbidity	NTU	1.74	-

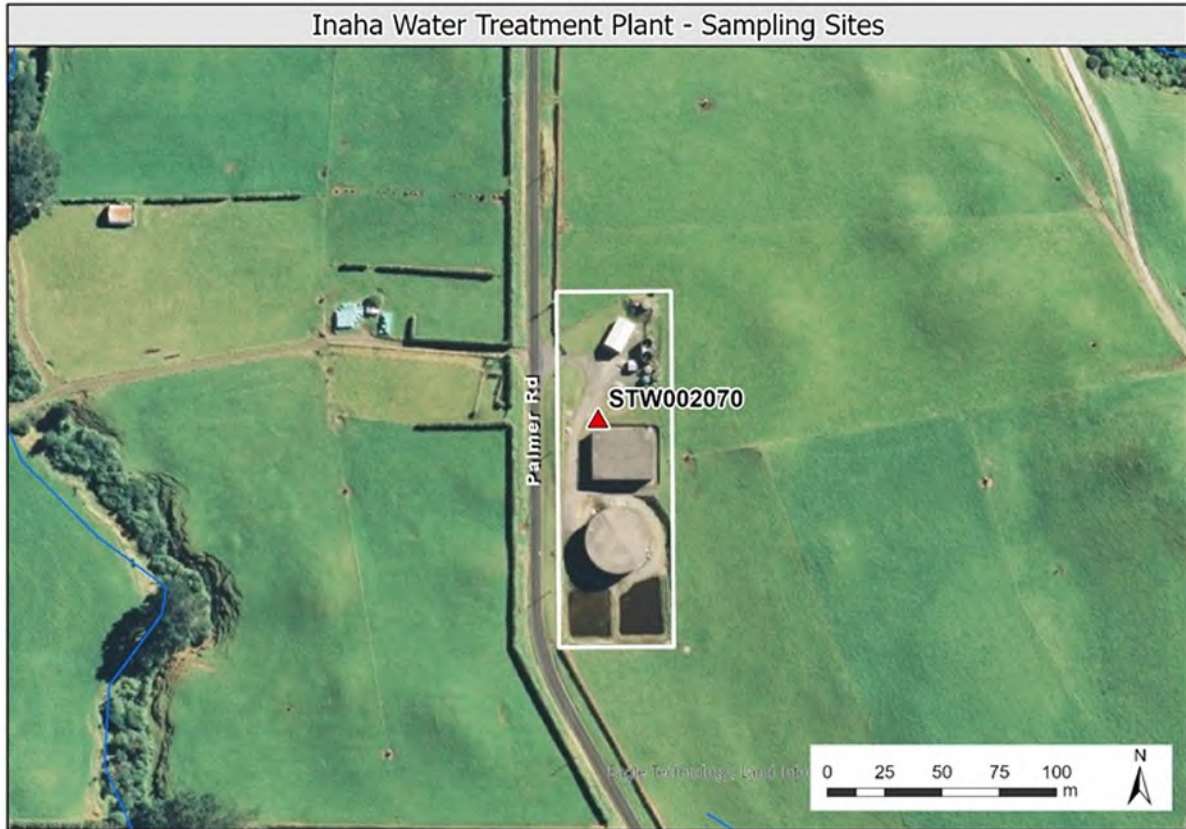


Figure 4 Aerial photo showing filter backwash sampling site for the Inaha WTP

#### 2.1.2.1.3 Waimate West WTP

A sample of the Waimate West WTP filter backwash discharge was collected on one occasion during the monitoring period. The results of the sample are presented in Table 5, with the location shown in Figure 5.

Table 5 Waimate WTP backwash discharge sample results (STW002069), 1 February 2023

Parameter	Unit	Result	Consent limits for discharge
pH	pH	7.1	6.5 – 8.5
Suspended solids	g/m <sup>3</sup>	4	20
Temperature	Deg C	18.0	-
Turbidity	NTU	0.95	-



Figure 5 Aerial photo showing filter backwash sampling site for the Waimate West WTP

### 2.1.2.2 Water quality discharge data review

STDC monitors the water quality of all their discharges in relation to WTPs on a monthly basis, both visually for effects on the receiving environment, and by sample analysis for concentrations of contaminants in the discharge, as required by their consent conditions. This data was reviewed and the results indicated that the monthly samples were in compliance with consent conditions (Table 6).

Table 6 STDC's discharge self-monitoring water quality summary

Water Treatment Plant	Consent number	No. of samples taken	pH range	Suspended solids (g/m <sup>3</sup> ) range
Eltham	1811-4	9	6.9 – 7.5	6.0 – 12.5
Inaha	3927-3	10	6.93 – 7.7	2.0 – 9.12
Kapuni	7446-1	9	7.3 – 7.85	5.0 – 12.8
Ōpunake	5574-2	9	7.14 – 7.8	5.1 – 35.2
Rahotu	6038-2	10	7.05 – 8.4	3.9 – 18.6
Waimate West	0129-3	9	7.0 – 7.8	3.2 – 17.3
<b>Consent limits</b>		-	<b>6 - 9</b>	<b>20 g/m<sup>3</sup></b>

Note: Ōpunake WTP has a suspended sediment consent limit of 50 g/m<sup>3</sup>

### 2.1.3 Results of receiving environment monitoring

The Council's standard 'kick-sampling' technique was used to collect streambed macroinvertebrates in order to assess the impact of the Waimate West WTP (Mangawhero-iti Stream), Hāwera WTP (Kapuni Stream), and

the Ōpunake WTP (Waiaua River). This has provided data to assess any potential impacts the consented water abstraction and/or backwash discharges may have had on the macroinvertebrate communities of the stream. Samples were processed to provide number of taxa (richness), MCI and SQMCI<sub>s</sub> scores, and EPT taxa for each site.

The MCI is a measure of the overall sensitivity of the macroinvertebrate community to the effects of organic pollution in stony streams. It is based on the presence/absence of taxa with varying degrees of sensitivity to environmental conditions. The SQMCI<sub>s</sub> takes into account taxa abundance as well as sensitivity to pollution, and may reveal more subtle changes in communities. It may be the more appropriate index if non-organic impacts are occurring.

Significant differences in either the MCI or the SQMCI<sub>s</sub> between sites indicate the degree of adverse effects (if any) of the discharges/abstractions being monitored.

A summary of each report is given below and copies of biomonitoring reports for these sites are available from the Council upon request.

#### 2.1.3.1.1 Kapuni Stream macroinvertebrate survey (Hāwera WTP)

3 March 2023

Two sites (KPN000300 and KPN000301) were visited to collect streambed macroinvertebrates from the Kapuni Stream to examine the effects of discharges to the stream from the Hāwera WTP (Figure 6). Taxa richness was moderate at both sites, with 14 taxa recorded at the upstream site and 17 taxa at the downstream. Both of these were substantially lower than their previous survey and the historic medians. However, given that these reductions were observed at both sites, they are not considered to be related to the discharge from the Hāwera Water Treatment Plant.

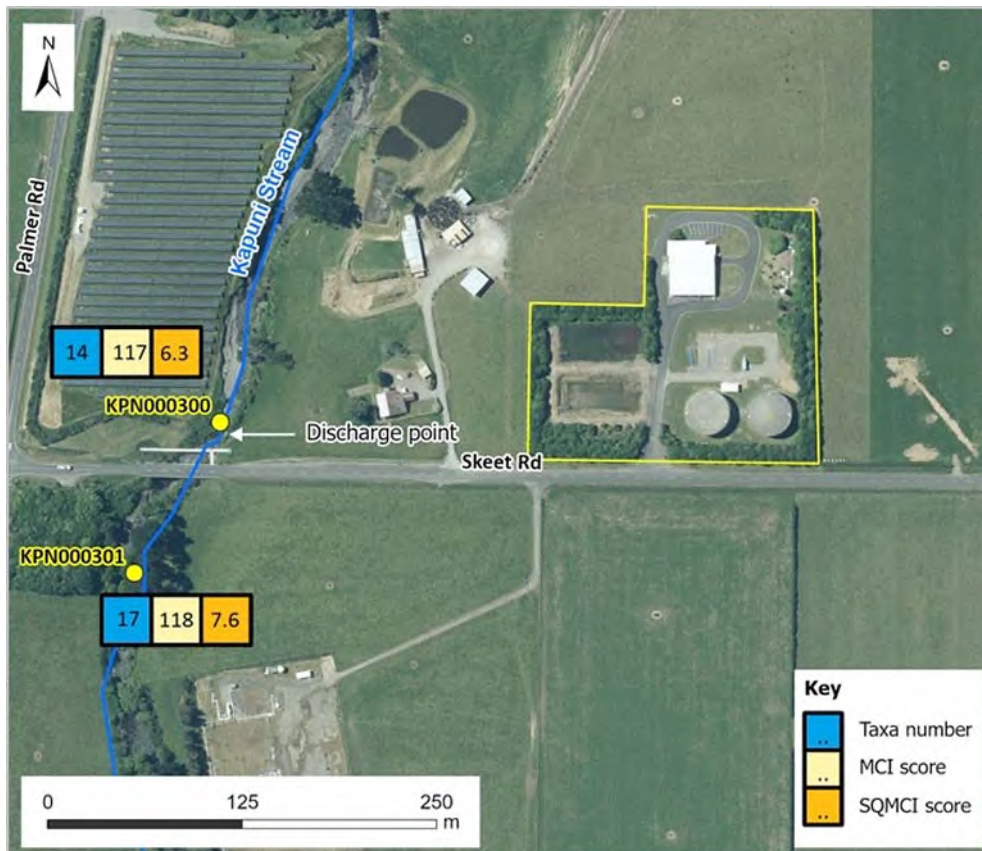


Figure 6 MCI results recorded in the Kapuni Stream in relation to the Hāwera WTP, 3 March 2023

MCI scores categorised both sites as having 'good' macroinvertebrate community health and were not significantly different from one another. Site 1 recorded a similar score to the previous survey and its historic median. In contrast, site 2 had a significantly improved score compared to the last survey, but was similar to the historic median. The MCI results show no evidence of impacts from the WTP.

Site 1 had an SQMCI score categorised as 'very good', while the score at site 2 was considered 'excellent' macroinvertebrate community health. These scores were not significantly different to the previous survey or the historic medians.

There is no evidence of any significant adverse impacts caused by the discharge from the Hāwera WTP.

#### 2.1.3.1.2 Waimate West WTP macroinvertebrate survey (Mangawhero-iti Stream)

28 March 2023

Four sites (MWI000170, MWI000174, MWI000330 and MWI000490, sites 1 to 4 respectively) were visited to collect streambed macroinvertebrates from the Mangawhero-iti Stream in relation to STDC's Waimate West WTP (Figure 7). Numbers of taxa richness were moderate across all the four sites, and ranged between 21 – 24 taxa. There was a decrease in taxa richness, in a downstream direction, however this was only minor.

Three taxa were dominant throughout the survey; two 'highly sensitive' mayfly (*Coloburiscus* and *Deleatidium*), and one 'moderately sensitive' beetle (*Elmidae*).

MCI scores ranged from 'good' to 'very good' macroinvertebrate health at all sites, with scores ranging between 118 and 135. All sites recorded similar to their respective site medians, except for site 4 which recorded significantly higher than its median. There was an overall decrease in macroinvertebrate community health in a downstream direction, with a slight increase in MCI scores from site 3 to site 4. However, due to the current survey results for these two sites being higher than the previous survey results and site medians (with site 4 being significantly higher), there is evidence of overall improvement at the site with no detrimental impacts caused by the Waimate West WTP .

SQMCI scores were reflective of 'excellent' health at all four sites. The SQMCI scores recorded at sites 1, 2 and 3 were similar to the previous survey and their site medians, while the score recorded at site 4 was significantly higher than both that recorded in the previous survey and the site median. As with the MCI score, the SQMCI score recorded at site 4 was the highest SQMCI score at that site to date. There were no significant differences in SQMCI scores between any sites in the current survey.

Overall, the results of the survey found no evidence that water abstraction from the Mangawhero-iti Stream by the Waimate West WTP had had a significant effect on the freshwater macroinvertebrate communities downstream of the abstraction point.

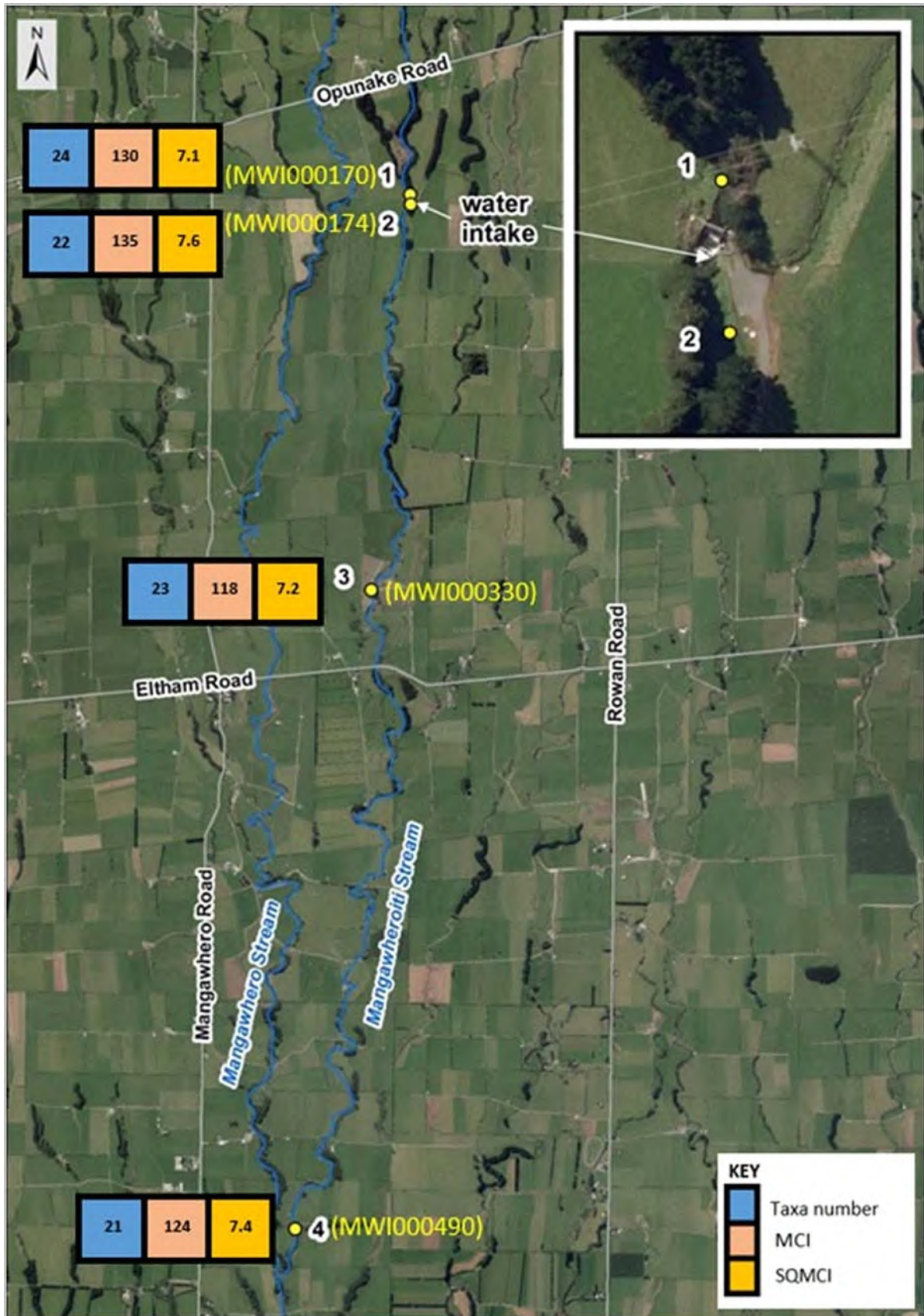


Figure 7 MCI results recorded in the Mangawhero-iti Stream in relation to the Waimate West WTP, 28 March 2023

### 2.1.3.1.3 Waiaua River macroinvertebrate survey (Ōpunake WTP)

5 April 2023

Three sites (WAA000395, WAA000398 and WAA000402) were visited to collect streambed macroinvertebrates from the Waiaua River to examine the effects of the abstraction and discharge to the stream from the Ōpunake WTP (Figure 8).

Taxa richness was substantially lower than the historical medians at all the sites, however, as it was a constant across all sites, there is no evidence that this difference is linked to the WTP. This low taxa richness is likely to be a reflection of the frequent high flows that preceded his survey, which scours habitat and flushes away invertebrates. The variation in taxa richness provides no grounds to believe that the backwash discharges had any discernible impacts.

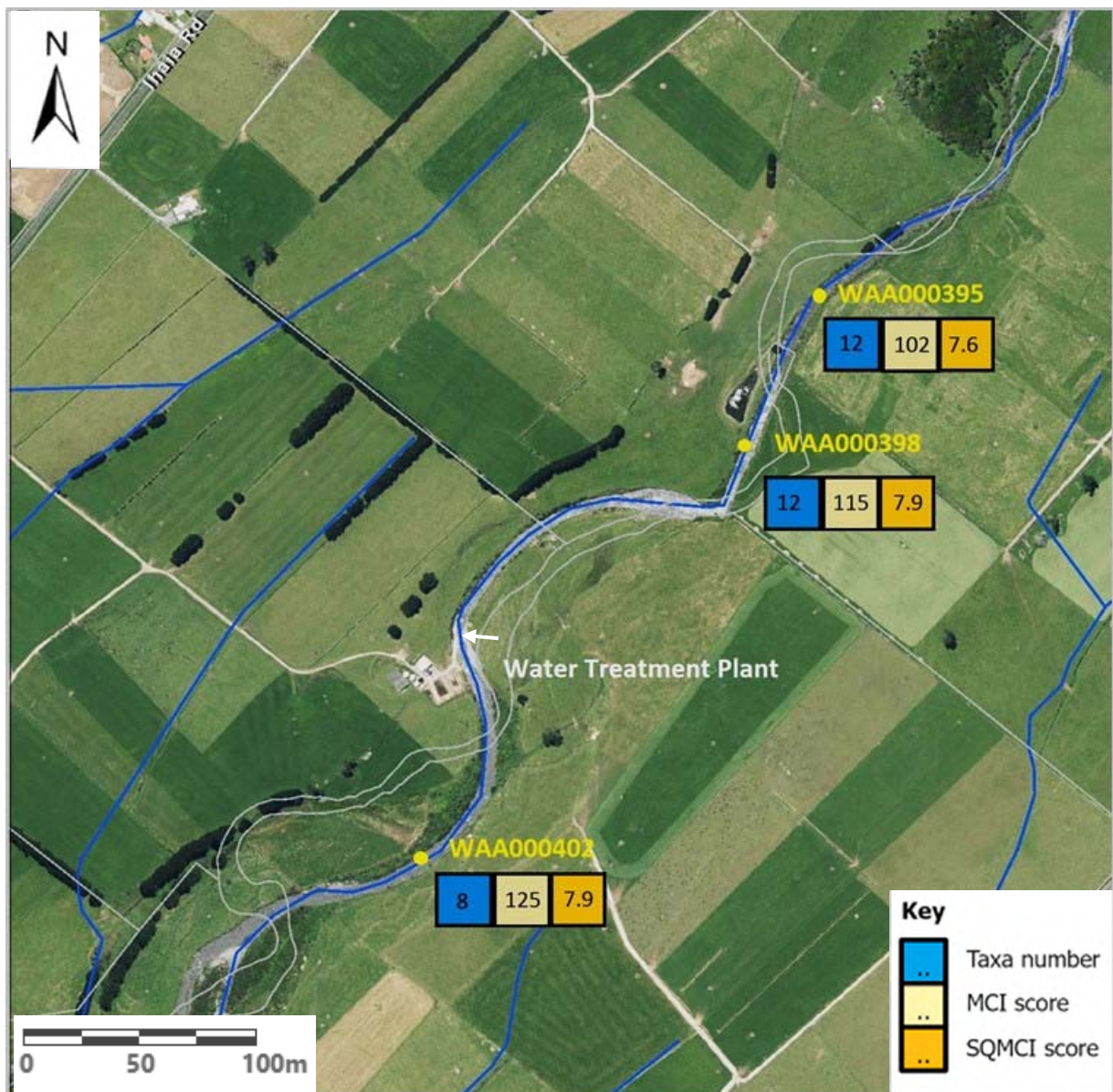


Figure 8 MCI results recorded in the Waiaua River in relation to the Ōpunake WTP, 05 April 2023



MCI scores indicated 'good' macroinvertebrate community health at sites 1 and 2 and 'very good' at site 3. Sites 2 and 3 had significantly higher MCI scores than site 1. Site 1 recorded a score of 102, which is the lowest record to date at this site, while site 3 recorded 125, which is the highest score recorded there to date.

All sites indicated 'excellent' macroinvertebrate community health and all recorded higher SQMCI scores than the previous survey and their historic medians. The observed increase in SQMCI scores indicates an improvement in macroinvertebrate community health.

Overall, this survey provided no evidence that the water abstraction and/or backwash discharge from the Ōpunake WTP had caused any significant adverse impacts on the macroinvertebrate communities of the Waiaua River.

### 2.1.3.2 Fish survey

During the period under review the Council undertook a fish survey in the Mangawhero-iti Stream in relation to Waimate West WTP. A summary of the report is given below, a copy of the full report can be obtained on request to the Council. A fish survey was also scheduled for the Mangatoki Stream in relation to the Inaha WTP, but was not completed, so will be carried over and completed in the 2023-2024 monitoring period.

#### 2.1.3.2.1 Mangawhero-iti Stream – Waimate West WTP

A five site survey was undertaken in the Mangawhero-iti Stream on 13 and 14 April 2023, to assess compliance with the fish passage condition of the consent held for this structure and to assess the fish communities downstream of the weir in relation to the residual flow provisions of the water abstraction consent (Photo 1). This survey employed the electric fishing technique.



Photo 1 Fish pass on the STDC weir in the Mangawhero-iti Stream

Two sites were sampled upstream of the weir, and three sites were downstream of the weir. Survey site 1 was at the National Park boundary and site 2 was at Ōpunake Road. The downstream sites were located just below the weir (site 3), 3.3 km downstream of the weir (site 5) and 8.3 km downstream of the weir (site 6).

From the results of this survey, it appears that the Mangawhero-iti Stream supported a depauperate fish community. Only four fish species were recorded downstream of the weir (longfin eel, shortfin eel, lamprey and brown trout), and one species recorded upstream of the weir (longfin eel). Freshwater crayfish were present at all sites with the exception of site 1. Although, species richness was low, longfin eel was the most abundant species recorded in the survey. Previous surveys indicated brown trout to be the most abundant species with self-sustaining populations above and below the weir, however, the current survey only had a single recording of brown trout below the weir. This may indicate a downward trend of the upstream population of trout, however, additional surveys need to be conducted to confirm this.

It is unclear what has caused this depauperate community. It is possible that it is related to the historical variability in flow caused by the water intake, and as such subsequent surveys may record a recovery in fish communities with the renewal of the consent. Should the flow in the Mangawhero-iti Stream drop as low as 32 L/sec on a number of consecutive days, the potential chronic impacts on fish communities caused by warming of the water, loss of attractant flow, reduced access to cover, increased predation and loss of wetted habitat could be sufficient to cause fish to emigrate out of the Mangawhero-iti, and may even lead to their death. However, below the intake the residual flow was reduced to a minimum of approximately 63-70 L/sec during the monitoring year, above the residual flow limit of 32 L/sec. Although compliance with special condition 8 of resource consent 0634 has been achieved for the monitoring period, a flow of 63 L/sec is equivalent to 44.7% of MALF, and may not be sufficient to maintain the stream's ecological values.

Due to low numbers of fish and fish species recorded in this survey, it is difficult to make any strong conclusions regarding whether the weir and the fish passage presents a restriction to the passage of fish. Aside from longfin eel, no other fish species was recorded above the weir. The previous survey concluded that the fish pass is likely to provide adequate passage for most migrant climbing native fish, however, no native species aside from eel have ever been recorded above the weir. Consequently, the claim of adequate fish passage is unsubstantiated and unsupported by the data in the current and previous survey.

Site 3, located directly below the weir recorded the highest number and density of longfin eels and of total fish in the current survey. These results are indicative of an accrual of fish below the weir due to fish passage not being adequately provided for. Inspection of the fish passage noted a number of potential issues with the current fish pass that likely discourage adequate passage such as; low attractant flow, the angle of the fish pass is steep, water in the fish pass is shallow and has a high velocity. Additionally, adult trout are unlikely to be able to negotiate the pass, and as such the fish pass does not strictly meet full compliance with consent conditions. However, when the fish pass was originally designed, it was considered that it need only provide passage for native fish, as the practical limitations of the site, and increased cost of providing trout passage was considered to be unreasonable. Nevertheless, providing passage for trout should be reconsidered if fish passage at this weir is reviewed in the future. This is because the Mangawhero-iti is located in the headwaters of the Mangawhero Stream and Kaupokonui River, both valued angling streams. Improving the fish passage may result in a more even distribution of fish communities in the stream and an increase in fish numbers above the weir.

Considering the flow below the weir has been variable and can get very low, it is possible that there have been deleterious impacts on the native fish and trout communities in much of the reach between the weir and the confluence with the next major tributary downstream. This may be exacerbated by the accrual of fish below the weir due to fish passage not being allowed for.

It is difficult at this stage to explain the reduced abundance or absence of redfin bully, torrentfish, common bully and kokopu species in this reach, and reduced species richness and abundance upstream. Subsequent monitoring, both environmental and ecological, may provide a better understanding of what is causing such a depauperate community in the Mangawhero-iti Stream.

Recommendations from the survey included:

- Consider the use of eDNA as a tool for determining presence and absence of fish in the communities above and below the weir. Comparison between fish survey results and eDNA results to determine any discrepancies or limitations with current survey methods.
- Consider using a different survey method such as spotlight fish monitoring to determine fish communities in the Mangawhero-iti stream.
- Consider undertaking high flow and low flow inspections to better understand potential flow conditions at the weir and fish passage. Also to determine residual flow conditions during high and low flows.
- Consider improving the fish passage to reduce water velocity, increase flow and water depth, and reduce angle of fish pass to better provide for fish passage for all native and non-native species within the catchment.
- Investigate whether a downstream influence is having an effect on fish communities in the catchment.

## 2.1.4 Abstraction and discharge data review

STDC's abstraction data is transmitted in 'real time' to the Council, where the data is processed and reviewed, to assess compliance with consented rates and volumes (Table 7) as per their consent conditions.

Table 7 Summary of abstraction data compliance

Water Treatment Plant	Source	Maximum volume (m <sup>3</sup> /day)	Consented volume (m <sup>3</sup> /day)	Compliance with volume	Maximum rate (L/s)	Consented rate (L/s)	Compliance with rate
Eltham	Waingongoro	4,784	5,200	100%	61.6	64	100%
Hāwera	Kapuni	9,950	12,100	100%	120.8	147	100%
	Kapuni bore	2,204	4,320	100%	35.6	50	100%
Inaha	Mangatoki	2,451	2,504	100%	30.3*	29	100%
	Waingongoro	2,550	2,592	100%	36.8	30	99%
Ōpunake	Waiaua	1,601	2,200	100%	24.7	25.5	100%
Pātea <sup>2</sup>	Bore 1	1.0	300	100%	1.0	4.7	100%
		173	345.6		4.6	4.0	99.9%
	Bore 4	741	864	100%	9.6	10	100%
		747	786.2		15.3	9.8	99.9%
	Bore 5	157	864	100%	7.0	10	100%
		304	432		6.2	5.0	99.6%
Bore 6	188	475.2	100%	5.2	6.5	100%	
Combined	1,014	1,125	100%	N/A	N/A	N/A	
Rahotu	Pungaereere	161	180	100%	2.1	3.0	100%
Waiinu	Waiinu bore	138	346	100%	1.7	4.0	100%
Waimate West	Mangawhero	0	N/A	N/A	0	70	100%
	Mangawhero-iti	10,076	N/A	N/A	127.3*	121	100%
	Otakeho	6,874	N/A	N/A	80.3	85	100%

<sup>2</sup> Consent was renewed 6 October 2022, which set different abstraction limits to the previous consent.

Water Treatment Plant	Source	Maximum volume (m <sup>3</sup> /day)	Consented volume (m <sup>3</sup> /day)	Compliance with volume	Maximum rate (L/s)	Consented rate (L/s)	Compliance with rate
	Rowan Rd bore	66	432	100%	1.4	N/A	N/A
Waverley	Chester St bore	244	400	100%	4.1	7.0	100%
	Fookes St bore	441	500	100%	5.3	7.2	100%
	Swinbourne St	816	890	100%	9.5	10.3	100%
	Combined Take	816	900	100%	11.7	14.2	100%
Waverley Beach	Permitted take bore	31.0	50	100%	0.6	1.5	100%
	Bore 2	N/E	80	-	N/E	1.5	-

N/E= consent not exercised N/A= no limit set in consent

\*within +/- 5% error allowed with the meter.

The Council also assesses the discharge volumes from Eltham, Hāwera, Ōpunake and Waimate West WTPs to ensure compliance with consent conditions. In the period under review, the Eltham WTP did not exercise their consent to discharge up to 5000 m<sup>3</sup> per year of reservoir contents to land. The Hāwera WTP which discharges backwash water under consent 7446-1 does not have a maximum discharge rate or volume but STDC still record and monitor the discharge volumes. The maximum volume of backwash discharged was 3,812 m<sup>3</sup>/day in July 2022. Review of the monitoring data for the Ōpunake and Waimate West WTPs indicated non-compliances with the daily discharge volumes on a number of occasions throughout the monitoring period (Table 8). The discharges that STDC supply, are not the actual recorded discharges, instead they are the difference between the meter that records the raw water abstracted from the stream and the meter recording the treated water that is used as the water supply. The difference between these two meters, the unused water, is the discharge. Some of these breaches are related to the cleaning of the settling ponds, which the consents allow for. However, the majority of the Ōpunake WTP non-compliances are due to the headwaters of the Waiaua River having suffered erosion that has caused the river to run with a high sand sediment load. This means that STDC abstract more water than normally required, with much of the water discharged back out during the treatment process, resulting in higher than consented discharges to the river. The effects of the discharge are unlikely to be any more than minor as the higher than consented discharges occurred in relation to taking water when the Waiaua River was in high flow conditions. Therefore it was unlikely that there would be any noticeable change in the river in either volume or water quality, as the volume of water discharged is small compared to the flow in the river. Following discussion from last year, STDC has an engineering project review underway that is expected to resolve the excess discharge volumes, which should be delivered by June 2025. Council has asked that STDC advise them of any non-compliances in a prompt manner.

Table 8 STDC's discharge self-monitoring water quantity summary

Water Treatment Plant	Consent number	Maximum volume (m <sup>3</sup> /day)	Consented volume (m <sup>3</sup> /day)	Number days non-compliant	Compliance rate (%)
Hāwera	7446-1	3,812	N/A	-	-
Ōpunake	5574-2	220	120	139	62%
Waimate West	0129-3	1,678	750	23	94%

It should be noted that there has been significant improvement in the number of non-compliances, with Ōpunake being compliant 62% of the time in 2022-2023 versus 42% of the time in 2021-2022. Waimate West improved to 94% in 2022-2023 from 90% in 2021-2022.

In regards to the Waimate West discharge, STDC have made some changes to the way the plant is run, and this is expected to result in less discharge breaches. This consent is currently under renewal and appropriate consent limits will be set at that time, but in the meantime, STDC have been advised that they are required to be compliant with their consent conditions.

## 2.1.5 Hydrological monitoring

Stream flow gauging's were completed by Council on behalf of STDC as part of their compliance monitoring requirements. Table 9 shows the stream measurements that were completed and which scheme it relates to and whether the flow was above the consented limit of the consent.

Table 9 Summary of flow gauging's conducted

Date	Water Treatment Plant	Stream	Flow (L/s)	Compliant (Y/N)
11-Aug-2022	Waimate West	Mangawhero-iti	546	Y
10-Nov-2022	Rahotu	Pungaereere	141	N/A
10-Nov-2022	Waimate West	Mangawhero	292	N/A
13-Dec-2022	Rahotu	Pungaereere	166	N/A
14-Dec-2022	Waimate West	Mangawhero	329	N/A
10-Jan-2023	Waimate West	Mangawhero	471	N/A
24-Jan-2023	Hāwera	Kapuni	1,326	N/A
25-Jan-2023	Eltham	Waingongoro	714	Y
9-Feb-2023	Rahotu	Pungaereere	137	N/A
21-Feb-2023	Hāwera	Kapuni	1,376	N/A
23-Feb-2023	Eltham	Waingongoro	699	Y
28-Feb-2023	Waimate West	Otakeho	464	N/A
7-Mar-2023	Waimate West	Mangawhero	311	N/A
7-Mar-2023	Waimate West	Otakeho	310	N/A
9-Mar-2023	Rahotu	Pungaereere	59	N/A
10-Mar-2023	Waimate West	Mangawhero-iti	363	Y
15-Mar-2023	Waimate West	Otakeho	312	N/A
24-Mar-2023	Hāwera	Kapuni	1,102	N/A
5-May-2023	Waimate West	Mangawhero-iti	1,217	Y
31-May-2023	Eltham	Waingongoro	1,412	Y
12-Jun-2023	Waimate West	Mangawhero-iti	406	Y

The 2022-2023 summer was significantly wetter than normal, so all flow gauging's completed show that the stream was above consented limits. STDC still encourages water conservation even if the season is wetter than normal. STDC are required to record water level for a number of their schemes, so that when sufficient flow gauging's have been undertaken, a rating can be established to allow for real time flow monitoring. STDC also record groundwater level data as part of their consent conditions. Results of the current water level and flow monitoring are summarised in Table 10.

Table 10 Groundwater level and stream flow compliance summary

Water Treatment Plant	Source	Type of data	Residual flow/level limit on consent?	Compliant with limits (Y/N)
Eltham	Waingongoro River	Stream flow	387 L/s	Y
Pātea	Bore 1 – GND0073	Groundwater level	No	N/A
	Bore 4 – GND2197	Groundwater level	No	N/A
	Bore 5 – GND2361	Groundwater level	No	N/A
	Bore 6 – GND3104	Groundwater level	No	N/A
Waimate West	Mangawhero-iti Stream	Stream flow	32 L/s	Y
Waverley	Chester St bore	Groundwater level	No	N/A
	Fookes St bore	Groundwater level	No	N/A
	Swinbourne St bore	Groundwater level	No	N/A

Once there has been sufficient flow gauging's completed for the Hāwera and Rahoitu WTPs, ratings will be established, and flow monitoring will occur.

### 2.1.6 Leak detection and water conservation

Nine of the fifteen water take consents require STDC to complete a report detailing:

- the work done to detect and minimise leaks;
- water use efficiency and conservation measures undertaken and planned; and
- water use benchmarking data for the region and how the area supplied by the consent compares.

This report is to be provided to Council on a yearly basis and is to cover the 1 July to 30 June period.

### 2.1.7 Leak detection and repairs

STDC complete leak detection works across all ten schemes that they operate. Table 11 is a summary of the reactive repairs for the ten schemes.

Table 11 Summary of leak detection and repairs between 1 July 2022 and 30 June 2023

Water Treatment Plant	Source	Consent	Leak Repairs	
			Major (previous year)	Minor (previous year)
Eltham	Waingongoro River	0213-3	17 (11)	34 (33)
Inaha	Mangatoki Stream	1185-3	9 (8)	13 (17)
	Waingongoro River	1186-3		
Hāwera	Kapuni Stream	0146-2	43 (58)	118 (203)
	Kapuni Bore	7002-1		
Ōpunake	Waiaua River	0232-4	7 (15)	55 (76)
Pātea	Bores 1, 4, 5 and 6	3388-3	1 (5)	7 (17)
Rahoitu	Pungaereere Stream	3696-3	0 (2)	0 (0)
Waiinu	Bore	3770-3	0 (1)	0 (1)

Water Treatment Plant	Source	Consent	Leak Repairs	
			Major (previous year)	Minor (previous year)
Waimate West	Bore	10370-1	28 (43)	82 (109)
	Mangawhero – iti Stream	0634-3		
	Mangawhero Stream	0635-3		
	Otakeho Stream	3911-2		
Waverley	Chester St, Fookes St and Swinbourne St bores	3313-3	0 (11)	0 (24)
Waverley Beach	Bore	9563-1	1 (0)	0 (0)

These repairs are reactive repairs that STDC are notified of by the public. STDC undertakes maintenance and long term project works for each of the schemes. These works include:

- repairs and/or replacements to water mains;
- assessments of pipework of intakes and raw water;
- repairs/replacements of water trunk lines;
- renewal of pipework;
- installation of pressure reducing valves;
- installation of back-up generators at reservoir pumps;
- improvements/protections to water intakes;
- planning and implementation for additional reservoir storage;
- planning and improvement of reservoir storage and capacity;
- planning for improving taste and odour or water supply;
- planning and implementation to reduce water treatment process losses;
- investigation into new water resources – new bores;
- improving water treatment process – clarifiers and solids capture.

These projects and maintenance are all ways that STDC implement improvements in their water treatment process.

### 2.1.8 Water use efficiency and conservation measures

STDC have undertaken the following methods to address efficiency and conservation needs:

- water metering;
- network management;
- benchmark water loss surveys;
- water restrictions during low summer flows; and
- customer notices and advice.

Table 12 shows the water efficiency measures STDC undertook across their water take schemes during the period under review.

Table 12 Water efficiency measures

Water Treatment Plant	Water Efficiencies/Conservation Measures
Hāwera	Inlet flow valve replaced and pressure reducing valve installation completed for Ohawe beach settlement

Water Treatment Plant	Water Efficiencies/Conservation Measures
Hāwera Ōpunake Pātea	Installed backflow preventers on high hazard connections
Ōpunake	Acoustic and thermal leak detection carried out
Pātea Waverley	Leak detection and repair Leakage step testing
Rahotu	Installation of meters on all connections to assist with loss identification

Network management included monitoring minimum night flows, reservoir levels and daily demand reports from their data capture network.

Bench loss is a recognised tool used nationally by which each district council must calculate and report on the efficiency of its water reticulation network. The standard measures the loss/wastage within the system and is expressed as a percentage of water loss versus the water produced. Losses may include leaks and bursts on mains, service reservoirs and service connections as well as losses through metering inaccuracies or water theft. This method is a Department of Internal Affairs mandatory performance measure. Across the schemes there was less than 10% losses at the Pātea, and Waverley Beach schemes and less than 20% losses at Hāwera, Ōpunake, Waiinu and Waimate West schemes. There was greater than 20% losses at the Eltham, Inaha, Rahotu and Waverley schemes, with some of those losses related to the reactive leak repairs and leaks found during the leak detection programmes. Overall STDC achieved less than 25% losses, across the schemes, for the monitoring period.

District water restrictions, using the odds and evens system, were not required due to the wetter than normal summer. STDC encourages water conservation by advisory notices at the Hāwera Cinema, on radio, in newspapers and farming magazines and on their website. They also have it sign written on STDC vehicles.

## 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).

In the 2022-2023 period, the Council was not required to undertake significant additional investigations and interventions, or record incidents, in association with STDC's conditions in resource consents or provisions in Regional Plans.



## 3 Discussion

### 3.1 Discussion of site performance

STDC has been proactive in having all abstraction data for all consents telemetered to the Council's database regardless of whether consent conditions require it or not. During the monitoring period 99.9% compliance was attained in regards to abstraction.

STDC is required to provide council with self-monitoring discharge data. Self-monitoring data for the monthly discharge samples were compliant with consent conditions for levels of free available chlorine, pH, and suspended solids throughout the monitoring year. A Council water sample of the Kapuni WTP discharge recorded an elevated level of free available chlorine. In response STDC increased the sampling intervals of this discharge, with further testing showing that this reading was likely an anomaly.

Discharge rates at Ōpunake complied with consent conditions 62% of the time. This was due to high sediment loads in the Waiaua River that meant that more water was required normal. As much of the water was discharged back out during the treatment process, this resulted in higher than consented discharges to the river. The effects of the discharge were unlikely to be any more than minor as the higher discharges occurred in relation to taking water when the Waiaua River was in high flow conditions. Therefore it was unlikely that there was any noticeable change in the river in either volume or water quality, as the volume of water discharged is small compared to the flow in the river. Ongoing discussions are occurring between Council and STDC about how best to resolve this. STDC has been advised to apply for a consent to increase the discharge volume allowed for the Ōpunake WTP and also to advise the Council of any non-compliances in a prompt manner.

Discharge rates at Waimate West complied with the volume limit at least 94% of the time. Condition 4 of consent 0129-3 allows for two instances annually where the discharge rate can be exceeded during clarifier drain down so compliance was approximately at 98% when this was considered. This consent expired in June 2023 and is currently awaiting renewal. It is likely that there will be changes to the conditions of this consent. STDC have been advised that they are required to be compliant with their consent conditions and ongoing discussions are occurring.

Reports required by consents 0146-2, 0213-4, 0232-4, 0634-3, 1185-3, 1186-3, 3388-3.2, 3696-3 and 3911-3 on efficient water use, leak detection and repair were submitted to the Council. A number of leaks were repaired at WTPs around the district during 2022-2023. STDC also carried out several other projects and maintenance activities, along with the implementation of various measures to increase the efficient use of water at the WTP sites.

### 3.2 Environmental effects of exercise of consents

STDC undertakes filter backwash discharge sampling on a regular basis, the results of which all complied with consent limits. Council also undertook sampling at the Inaha, Kapuni and Waimate West WTPs. The results complied with consent conditions and the discharges were not likely to be causing any adverse environmental effects.

Macroinvertebrate surveys found no evidence of adverse effects in regards to abstraction from or discharges to the Kapuni (Hāwera WTP), Mangawhero-iti (Waimate West WTP), or Waiaua (Ōpunake WTP) streams.

A fish survey was undertaken in relation to the Waimate West WTP (Mangawhero-iti Stream) however, due to the low numbers of fish and fish species recorded in the survey, it was difficult to make any strong conclusions regarding whether the weir and the fish passage presents a restriction to the passage of fish. Aside from longfin eel, no other fish species were recorded above the weir. The previous survey concluded

that the fish pass is likely to provide adequate passage for most migrant climbing native fish, however, no native species aside from eel have ever been recorded above the weir. Consequently, the claim of adequate fish passage is unsubstantiated and unsupported by the data in the current and previous survey.

It was recommended that the use of eDNA as a tool for determining presence and absence of fish in the communities above and below the weir is considered. This will allow the comparison between fish survey results and eDNA results to determine any discrepancies or limitations with current survey methods.

Other recommendations were to consider using a different survey method such as spotlight fish monitoring to determine fish communities in the Mangawhero-iti stream. To consider undertaking high flow and low flow inspections to better understand potential flow conditions at the weir and fish passage. Also to determine residual flow conditions during high and low flows. To consider improving the fish passage to reduce water velocity, increase flow and water depth, and reduce angle of fish pass to better provide for fish passage for all native and non-native species within the catchment and to investigate whether a downstream influence is having an effect on fish communities in the catchment.

### 3.3 Evaluation of performance

A tabular summary of the consent holder's compliance record for the year under review is set out in Tables 13-46.

#### 3.3.1 Eltham WTP

Table 13 Summary of performance for Consent 0213-4 (Eltham WTP)

<b>Purpose: To take and use water from the Waingongoro River for municipal water supply purposes</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Limit on abstraction volume and rate	Review of abstraction data	Yes
2. Water measuring equipment to be installed and maintained	Inspection	Yes
3. Validation of measuring equipment	Last verified August 2019	Yes
4. Advise Council of equipment failure	Liaison with consent holder	N/A
5. Water meter to be accessible to Council	Inspection	Yes
6. Water records to be in a suitable format and transmitted to Council	Records received	Yes
7. Rating curve to be established in Waingongoro River	Rating curve has been established	Yes
8. Water restrictions to be implemented when flow is less than 387 L/s for seven or more consecutive days	Water restrictions were not required	N/A
9. Report to be provided every three years detailing the effectiveness of water restrictions	Due by September 2022	Yes

<b>Purpose: To take and use water from the Waingongoro River for municipal water supply purposes</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
10. Adoption of best practicable option	Inspections, liaison with consent holder, data review	Yes
11. Provide annual leak report	Provided	Yes
12. Review of hydrological records to update estimate of mean annual low flow. Before June 2024, then three yearly	Due by June 2024	N/A
13. Seven annual payments of \$7,000 for the purpose of environmental enhancement	First payment received September 2021	Yes
14. Screening of intake to avoid fish entrapment	Installed 3 March 2022	Yes
15. Review provision	Next option for review June 2024	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>High</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

Table 14 Summary of performance for Consent 0989-3 (Eltham WTP)

<b>Purpose: To discharge reservoir contents from the Eltham Water Supply Reservoir onto land adjacent to the Waingongoro River</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Adoption of best practicable option	No discharge during period under review	N/A
2. Notification of discharge two days prior	No discharge during period under review	N/A
3. Volume of discharge not to exceed 5,000 m <sup>3</sup> once per year	No discharge during period under review	N/A
4. Discharge only when flows in Waingongoro > 1,050 L/s	No discharge during period under review	N/A
5. Discharge across land, no direct discharge to water	No discharge during period under review	N/A
6. Consent holder to reduce volume of sediment and silt in the discharge	No discharge during period under review	N/A
7. Suspended solids in discharge not to exceed 100 g/m <sup>3</sup>	No discharge during period under review	N/A
8. Discharge not to have effects on receiving water	No discharge during period under review	N/A
9. Review provision	No further option to review prior to expiry June 2029	N/A

<b>Purpose: To discharge reservoir contents from the Eltham Water Supply Reservoir onto land adjacent to the Waingongoro River</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>N/A</b>
Overall assessment of administrative performance in respect of this consent		<b>N/A</b>

Table 15 Summary of performance for Consent 1811-4 (Eltham WTP)

<b>Purpose: To discharge filter backwash from the Eltham WTP via a settling pond into an unnamed tributary of the Waingongoro River</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Adoption of best practicable option	Inspection	Yes
2. Limits on chlorine, pH and suspended solids in the discharge	Review of consent holder data	Yes
3. Discharge not to cause certain effects in the receiving waters below the established mixing zone	Inspection	Yes
4. Review provision	Next option for review June 2029	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>High</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

### 3.3.2 Hāwera WTP

Table 16 Summary of performance for Consent 0146-2 (Hāwera WTP)

<b>Purpose: To take and use water from the Kapuni Stream for municipal water supply purposes</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Limit on abstraction volume and rate	Review of abstraction data	Yes
2. Water measuring equipment to be installed and maintained	Last verified May 2019	Yes
3. Consent to be exercised in accordance with application documentation. Report on efficiency measures every two years	Report received	Yes
4. Reporting of events when abstraction is greater than 124.5 L/s	Data review	N/A
5. Mitigation by riparian planting	Total amount has been paid to the Taranaki Tree Trust	N/A

<b>Purpose: To take and use water from the Kapuni Stream for municipal water supply purposes</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
6. Preparation and maintenance of management plan for Kapuni Stream in conjunction with other users (within three months of granting)	Liaison with consent holder – Plan prepared in 2003, updated in 2006, 2010 and 2013	Yes
7. Annual leak detection and repair report	Report received	Yes
8. Point of abstraction	Inspection	Yes
9. Review provision	Consent expired – s124 protected	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>High</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

Table 17 Summary of performance for Consent 0933-3 (Hāwera WTP)

<b>Purpose: To discharge up to 227 m<sup>3</sup> /day of settling pond supernatant from a water treatment plant into the Kapuni Stream</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Adoption of best practicable option	Relates to old WTP - decommissioned in 2009	N/A
2. Exercise of consent in accordance with application	Relates to old WTP - decommissioned in 2009	N/A
3. Notification prior to exercise	Relates to old WTP - decommissioned in 2009	N/A
4. Permanent solution for treatment of wastes at time of upgrade in 2008	Relates to old WTP - decommissioned in 2009	N/A
5. Proper and efficient maintenance and operation of settlement system	Relates to old WTP - decommissioned in 2009	N/A
6. Discharge not to have adverse effects on receiving waters	Relates to old WTP - decommissioned in 2009	N/A
7. Limits on chlorine, pH and suspended solids in the discharge	Relates to old WTP - decommissioned in 2009	N/A
8. Lapse provision	Not applicable – consent exercised	N/A
9. Review provision	Consent expired June 2023	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>N/A</b>
Overall assessment of administrative performance in respect of this consent		<b>N/A</b>

Table 18 Summary of performance for Consent 7002-1 (Hāwera WTP)

<b>Purpose: To take and use groundwater from up to three water bores at the Kapuni Reservoir site for municipal, rural, industrial, and recreational supply purposes (Hāwera)</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Adoption of best practicable option	Inspections of site and records	Yes
2. Notify the Council in writing at least seven days prior to exercise of consent	Notification received	Yes
3. Provide Council with results of pump testing prior to exercise of consent	Received	Yes
4. Not to exceed set abstraction rate and volume limits	Review of abstraction data	Yes
5. Abstraction not to cause a more than 10% drop in static water level by interference	Not assessed	N/A
6. Maintain and record abstraction data	Data received	Yes
7. Installation of piezometers and monitoring groundwater levels	Data reviewed	Yes
8. Install and maintain measuring device	Data received	Yes
9. Consent holder to meet monitoring costs	Liaison with consent holder	Yes
10. Lapse provision	Not applicable – consent exercised	N/A
11. Review provision	Consent expired – s124 protected	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>High</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

Table 19 Summary of performance for Consent 7413-1 (Hāwera WTP)

<b>Purpose: To erect, use and maintain a water intake structure on the bed of the Kapuni Stream</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Adoption of best practicable option	Inspection	Yes
2. Disturbance of riverbed between 1 November and 30 April only	No maintenance during monitoring period	N/A
3. Notification prior to works and maintenance	No maintenance during monitoring period	N/A
4. Area and volume of disturbance minimised	No maintenance during monitoring period	N/A

<b>Purpose: To erect, use and maintain a water intake structure on the bed of the Kapuni Stream</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
5. Minimise sediment entering stream	No maintenance during monitoring period	N/A
6. Structure removed and area reinstated when no longer required	Structure in use	N/A
7. Consent holder to monitor and maintain fish pass	Visual assessment	Yes
8. Procedure if archaeological remains discovered during construction	None found	N/A
9. Lapse provision	Not applicable – consent exercised	N/A
10. Review provision	Consent expired – s124 protected	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>High</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

Table 20 Summary of performance for Consent 7446-1 (Hāwera WTP)

<b>Purpose: To discharge membrane backwash water and cleaning wastewater into the Kapuni Stream</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Adoption of best practicable option	Inspection and liaison with consent holder	Yes
2. No adverse effects on receiving waters	Visual assessment, sampling, biomonitoring	Yes
3. Allowable increase in turbidity below mixing zone	Sampling	Yes
4. Limits on chlorine, pH and suspended solids in the discharge	Sampling and review of consent holder data	Partial – high pH and chlorine on 31 January
5. Lapse provision	Not applicable – consent exercised	N/A
6. Review provision	Consent expired – s124 protected	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>Good</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

Table 21 Summary of performance for Consent 7447-1 (Hāwera WTP)

<b>Purpose: To install, use and maintain an outfall structure on the bank of the Kapuni Stream for the Kapuni Water Treatment Plant</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Adoption of best practicable option	Inspections	Yes
2. Disturbance of riverbed between 1 November and 30 April only	No maintenance during period under review	N/A
3. Notification prior to works and maintenance	No maintenance during period under review	N/A
4. Area and volume of disturbance minimised	No maintenance during period under review	N/A
5. Minimise sediment entering stream	No maintenance during period under review	N/A
6. Structure removed and area reinstated when no longer required	Structure in use	N/A
7. Procedure if archaeological remains discovered during construction	None found	N/A
8. Lapse provision	Consent exercised	N/A
9. Review provision	Consent expired – s124 protected	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>High</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

### 3.3.3 Inaha WTP

Table 22 Summary of performance for Consent 1185-3 (Inaha WTP)

<b>Purpose: To take water from the Mangatoki Stream in the Waingongoro catchment for Inaha rural water supply purposes</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Adoption of best practicable option	Inspection and liaison with consent holder	Yes
2. Combined take not to exceed 29 L/s, or 2,504 m <sup>3</sup> /day	Review of abstraction data	Yes
3. Gravity take preferential	Inspection and liaison with consent holder	Yes
4. Install and maintain water meter and data logger	Inspection and liaison with consent holder	Yes
5. Certification of water meter	Last verified September 2019	Yes
6. Notification of equipment failure	Liaison with consent holder	N/A



<b>Purpose: To take water from the Mangatoki Stream in the Waingongoro catchment for Inaha rural water supply purposes</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
7. Intake structure maintained, and removed if no longer required	Visual assessment	Yes
8. Water meter and data logger accessible to Council staff	Inspection	Yes
9. Data in a suitable format	Review of abstraction records	Yes
10. Water records to be transmitted in 'real time' to Council	Data received	Yes
11. Maintain intake structure and remove once no longer required	Visual assessment	Yes
12. Intake structure to be screened	Visual assessment	Yes
13. Intake structure maintained to allow for fish passage	Visual assessment and fish survey	Yes
14. Leak detection and repair programme with annual report	Report received	Yes
15. Review provision	Consent expired – s124 protected	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>High</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

Table 23 Summary of performance for Consent 1186-3 (Inaha WTP)

<b>Purpose: To take water from the Waingongoro River for Inaha rural water supply purposes</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Adoption of best practicable option	Inspection and liaison with consent holder	Yes
2. Exercise of consent in accordance with application	Inspection and liaison with consent holder	Yes
3. Maximum abstraction 2,592 m <sup>3</sup> /day at 30 L/s	Review of abstraction data	99%
4. Measure and record abstraction rate and provide to Council	Data received	Yes
5. Maintain intake structure and remove once no longer required	Inspection and liaison with consent holder	Yes
6. Intake screened to avoid fish entrainment	Visual assessment	Yes
7. Intake structure maintained to allow for fish passage	Visual assessment	Yes
8. Leak detection and repair programme with annual report	Report received	Yes

<b>Purpose: To take water from the Waingongoro River for Inaha rural water supply purposes</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
9. Lapse provision	Not applicable – consent exercised	N/A
10. Review provision	Consent expired – s124 protected	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>High</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

Table 24 Summary of performance for Consent 3927-3 (Inaha WTP)

<b>Purpose: To discharge backwash wastewater from the Inaha Rural Water Supply Treatment Plant into an unnamed tributary of the Mangatoki Stream</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Adoption of best practicable option	Inspection	Yes
2. Limits on chlorine, pH and suspended solids in the discharge	Sampling and consent holder sample data reviewed	Yes
3. Discharge not to cause certain effects in receiving water	Visual assessment of receiving environment	Yes
4. Review provision	Next option for review June 2023	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>High</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

Table 25 Summary of performance for Consent 3928-3 (Inaha WTP)

<b>Purpose: To discharge uncontaminated overflow water from the Inaha Rural WTP via a settlement pond into an unnamed tributary of the Mangatoki Stream</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Adoption of best practicable option	Inspection	Yes
2. Discharge not to cause certain effects in the receiving waters	Visual assessment of receiving environment	Yes
3. Review provision	Next option for review June 2023	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>High</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

Table 26 Summary of performance for Consent 4102-2 (Inaha WTP)

<b>Purpose: To maintain an existing low-level weir and fish pass across the Mangatoki Stream in the Waingongoro catchment</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Adoption of best practicable option	No maintenance during period under review	N/A
2. Exercise of consent in accordance with application	No maintenance during period under review	N/A
3. Notification of Council prior to exercise of consent	No maintenance during period under review	N/A
4. Notification of Council prior to major maintenance works	No maintenance during period under review	N/A
5. Adoption of best practicable option during maintenance works	No maintenance during period under review	N/A
6. River bed disturbance to be minimised during maintenance	No maintenance during period under review	N/A
7. No maintenance works between 1 May to 31 October	No maintenance during period under review	N/A
8. Structure to be maintained as per consent conditions	Visual assessment	Yes
9. Structure maintained to allow for fish passage	Visual assessment	Yes
10. Structure to be removed and area reinstated when no longer required	Structure in use	N/A
11. Lapse provision	Not applicable - consent exercised	N/A
12. Review provision	Consent expired – s124 protected	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>High</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

Table 27 Summary of performance for Consent 5365-2 (Inaha WTP)

<b>Purpose: To dam water and use a low level intake weir in the Mangatoki Stream for Inaha rural water supply scheme purposes</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Structure remains sound and fit for purpose	Inspection	Yes
2. Repair and control of erosion of river bed or banks caused by weir	Inspection	Yes
3. Structure maintained to allow for fish passage	Inspection	Yes
4. Review provision	Next option for review June 2023	N/A

<b>Purpose: To dam water and use a low level intake weir in the Mangatoki Stream for Inaha rural water supply scheme purposes</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>High</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

### 3.3.4 Ōpunake WTP

Table 28 Summary of performance for Consent 0232-4 (Ōpunake WTP)

<b>Purpose: To take and use water from the Waiaua River for Ōpunake town water supply purposes</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Rate of take not to exceed 2,200 m <sup>3</sup> /day or 25.5 L/s	Review of abstraction data	Yes
2. Take water through 'new' intake except during maintenance works	Inspection and liaison with consent holder	Yes
3. Rate of take through 'old' intake up to 3,650 m <sup>3</sup> /day or 42.2 L/s	No take, as old intake has been sealed	N/A
4. Notify Council if take occurs through old intake	No take, as old intake has been sealed	N/A
5. Installation and maintenance of water meter and data logger	Inspection	Yes
6. Water meter certification	Last verified July 2019	Yes
7. Notify Council of equipment failure	Liaison with consent holder	N/A
8. Water meter and data logger accessible to Council staff	Inspection	Yes
9. Suitable format of records	Review of abstraction data	Yes
10. Data to be transmitted to Council in real time from 1 December 2013	Data received	Yes
11. Adoption of best practicable option	Inspection and liaison with consent holder	Yes
12. Annual report on leak detection and water use efficiency	Report received	Yes
13. Lapse provision	Consent exercised	N/A
14. Review provision	Next option for review June 2024	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>High</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

Table 29 Summary of performance for Consent 5574-2 (Ōpunake WTP)

<b>Purpose: To discharge water treatment residuals and pond drainage water from the Ōpunake WTP into the Waiaua River</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Adoption of best practicable option	Inspections and liaison with consent holder	Yes
2. Discharge not to exceed 120 m <sup>3</sup> /day	Review of consent holder data	No - 62% compliance throughout the monitoring period
3. Not to give rise to effects in receiving waters	Inspection	Yes
4. Limits on chlorine, pH and suspended solids in the discharge	Review of consent holder data	Yes
5. Lapse provision	Consent exercised	N/A
6. Review provision	Next option for review June 2024	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent Overall assessment of administrative performance in respect of this consent		<b>Improvement required High</b>

Table 30 Summary of performance for Consent 9473-1 (Ōpunake WTP)

<b>Purpose: To construct, place and use a water intake structure on the bed of the Waiaua River for water abstraction purposes</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Intake structure specifications	Inspection during construction	Yes
2. Notification prior to works	No maintenance during period under review	N/A
3. Minimise river bed disturbance	No maintenance during period under review	N/A
4. Minimise sediment discharge to river	No maintenance during period under review	N/A
5. Ensure screen does not entrap fauna	Inspection	Yes
6. Structure maintained to allow for fish passage	Inspection	Yes
7. Financial payment	Payment received previously	Yes
8. Procedures for archaeological finds	Nothing found	N/A
9. Remove structure when no longer required	Structure being used	N/A
10. Lapse condition	Consent exercised	N/A
11. Review provision	Next option for review June 2024	N/A

<b>Purpose: To construct, place and use a water intake structure on the bed of the Waiaua River for water abstraction purposes</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>High</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

### 3.3.5 Pātea WTP

Table 31 Summary of performance for Consent 3388-3.1 (Pātea Bores) – To 6 October 2022

<b>Purpose: To take and use groundwater from three bores (known as Bore 1, Bore 4 and Bore 5) for Pātea Township water supply purposes</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Total daily abstraction not to exceed 1,125 m <sup>3</sup>	Review of abstraction data	Yes
2. Each bore (1, 4 or 5) to not exceed certain abstraction rates	Review of abstraction data	Yes
3. Bore 1 not to exceed 300 m <sup>3</sup> /day unless for essential maintenance of other bores	Review of abstraction data	Yes
4. Installation and maintenance of water meter and data logger	Inspection	Yes
5. Water meter certification	Last verified May 2019 (bore 1 and 5); January 2020 (bore 4).	Yes
6. Inform Council of any equipment malfunction	Liaison with consent holder	N/A
7. Water meter and data logger accessible to Council staff	Inspection	Yes
8. Adoption of best practicable option	Inspection	Yes
9. Measure level in Brannigan's bore	Bore decommissioned	N/A
10. Consultations with Brannigan's bore owner if levels meet certain criteria	Bore decommissioned	N/A
11. Restrict use or provide water to Brannigan's bore owner if levels meet certain criteria	Bore decommissioned	N/A
12. Not to cause saltwater intrusion	Water quality sampling	Yes
13. Review provision	No further option to review prior to expiry June 2028	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>High</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

Table 32 Summary of performance for Consent 3388-3.2 (Pātea Bores) – From 6 October 2022

<b>Purpose: To take and use groundwater from four bores (known as Bore 1, Bore 4, Bore 5 and Bore 6) for Pātea Township water supply purposes</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Total daily abstraction from the four bores not to exceed 1,125 m <sup>3</sup>	Review of abstraction data	Yes
2. Each bore (1, 4, 5 or 6) to not exceed certain abstraction rates	Review of abstraction data	Bore 1: 99.9% Bore 4: 99.9% Bore 5: 99.6% Bore 6: 100%
3. Bore 4 and Bore 6 may be higher than routine abstraction between December and March and no more than 7 days	Review of abstraction data	Yes
4. Water quality sample to be collected in February each year	Provision of water quality results	Yes
5. Bore 1, Bore 5 and Bore 6 not to operate simultaneously	Review of abstraction records	Yes
6. Water meter and datalogger installed	Inspection	Yes
7. Water meter verified	Last verified May 2019 (bore 1 and 5), January 2020 (bore 4), October 2023 (bore 5)	Yes
8. Inform Council of any equipment malfunction	Liaison with consent holder	N/A
9. Water meter and data logger accessible to Council staff	Inspection	Yes
10. Installation of water level equipment	Inspection	Yes
11. Recording of groundwater level	Review of records	Yes
12. Water meters and groundwater level loggers accessible to Council staff	Inspection	Yes
13. Adoption of best practicable option	Inspections and liaison with consent holder	Yes
14. Annual report on leak detection and water use efficiency	Report received	Yes
15. Not to cause saltwater intrusion	Water quality sampling	Yes
16. Review provision	No further option to review prior to expiry June 2028	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>High</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

### 3.3.6 Rahoitu WTP

Table 33 Summary of performance for Consent 3696-3 (Rahoitu WTP)

<b>Purpose: To take and use water from the Pungaereere Stream for the Rahoitu community water supply scheme</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Limit on abstraction volume and rate	Review of abstraction data	Yes
2. Installation and maintenance of water meter and data logger	Inspection	Yes
3. Water meter certification	Last verified August 2019	Yes
4. Notify Council of equipment failure	Liaison with consent holder	N/A
5. Water meter and data logger accessible to Council staff	Inspection	Yes
6. Suitable format of records	Review of abstraction data	Yes
7. Data to be transmitted to Council in real time from 1 February 2014	Data received	Yes
8. Adoption of best practicable option	Inspection and liaison with consent holder	Yes
9. Annual report on leak detection and water use efficiency	Report received	Yes
10. Lapse provision	Consent exercised	N/A
11. Review provision	Next option for review June 2025	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>High</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

Table 34 Summary of performance for Consent 6038-2 (Rahoitu WTP)

<b>Purpose: To discharge filter backwash water and settling tank waste from the Rahoitu WTP into the Pungaereere Stream</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Adoption of best practicable option	Inspections	Yes
2. Limits on chlorine, pH and suspended solids in the discharge	Sampling and review of consent holder data	Yes
3. Discharge not to cause certain effects in the receiving waters below the established mixing zone	Inspection	Yes



<b>Purpose: To discharge filter backwash water and settling tank waste from the Rahoitu WTP into the Pungaereere Stream</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
4. Results of discharge self-monitoring to be provided on request	Results received	Yes
5. Review provision	Next option for review June 2025	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>High</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

### 3.3.7 Waiinu Beach water supply

Table 35 Summary of performance for Consent 3770-3 (Waiinu WTP)

<b>Purpose: To take and use groundwater for Waiinu Beach water supply purposes</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Limit on abstraction volume and rate	Review of abstraction data	Yes
2. Installation and maintenance of water meter and data logger	Logger and meter installed - data received	Yes
3. Water meter certification	Last verified June 2019	Yes
4. Notify Council of equipment failure	Liaison with consent holder	N/A
5. Water meter and data logger accessible to Council staff	Inspection	Yes
6. Water records to be provided by 31 July each year	Data received	Yes
7. Adoption of best practicable option	Inspection and liaison with consent holder	Yes
8. Lapse provision	Consent exercised	N/A
9. Review provision	No further option to review prior to expiry June 2028	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>High</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

### 3.3.8 Waimate West WTP

Table 36 Summary of performance for Consent 0129-3 (Waimate West WTP)

<b>Purpose: To discharge treated washwater from the Waimate water supply scheme into an unnamed tributary of Kelly's Creek</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Adoption of best practicable option	Inspection and liaison with consent holder	Yes
2. Period of 40 days allowed in 2015 to discharge water and contaminants from testing bores	N/A	N/A
3. Exercise of consent in accordance with application	Inspection and liaison with consent holder	Yes
4. Maximum discharge rate 750 m <sup>3</sup> /day	Review of abstraction data	No – 94% compliance throughout the monitoring period
5. Installation and maintenance of erosion protection structure during commissioning of plant.	Not required as commissioning discharges did not occur	N/A
6. Limits on chlorine, pH, iron, manganese, ammonia and suspended solids in the discharge	Sampling and review of consent holder data	Yes
7. Efficient operation of settling ponds	Inspection and data review	Yes
8. No effects on receiving water	Inspection and review of consent holder data	Yes
9. Review provision	Consent expired – s124 protected	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent Overall assessment of administrative performance in respect of this consent		<b>Improvement required High</b>

Table 37 Summary of performance for Consent 0634-3 (Waimate West WTP)

<b>Purpose: To take water from the Mangawhero-iti Stream for the Waimate West water supply</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Max rate of abstraction 121 L/s	Review of abstraction data	Yes
2. Limit on abstraction unless water is taken from Otakeho Stream at 85 L/s unless unable to achieve 85 L/s	Review of abstraction data	Yes
3. Installation of water meter and data logger and records of volumes abstracted	Inspections and abstraction data	Yes

<b>Purpose: To take water from the Mangawhero-iti Stream for the Waimate West water supply</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
4. Notification of installation of water meter and data logger and certification	Last verified September 2019	Yes
5. Notification of equipment failure	Inspection and liaison with consent holder	Yes
6. Water meter and data logger accessible to Council	Inspections	Yes
7. Records of water taken in suitable format	Review of abstraction data	Yes
8. Flow in Mangawhero-iti Stream downstream of intake to be maintained above 32 L/s	Data provided	Yes
9. Flow of Mangawhero-iti Stream recorded when less than 500 L/s	Data provided	Yes
10. Measurements to be transmitted to Council in 'real time'	Data received	Yes
11. Staff gauge to be installed	Installed by Council	Yes
12. Sufficient stream flow measurements undertaken to maintain a 'rating curve'	Gauging's undertaken by Council	Yes
13. Adoption of best practicable option	Inspections, data review	Yes
14. Annual leak detection report due 1 September	Report received	Yes
15. Five annual payments of \$30,600 due 2011 to 2015	Payments all received no more required	N/A
16. Review of consent conditions	Consent expired – s124 protected	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>High</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

Table 38 Summary of performance for Consent 0635-3 (Waimate West WTP)

<b>Purpose: To take water from the Mangawhero Stream for the purpose of adding to the flow of the Mangawhero-iti Stream and providing water for the Waimate west water supply</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Max rate of take 70 L/s	No water taken	Yes
2. Scope of use	Review of abstraction data	Yes
3. Installation of water meter and data logger and records of volumes abstracted	Inspections and abstraction data	Yes

<b>Purpose: To take water from the Mangawhero Stream for the purpose of adding to the flow of the Mangawhero-iti Stream and providing water for the Waimate west water supply</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
4. Notification of installation of water meter and data logger and certification	Last verified September 2019	Yes
5. Notification of equipment failure	Liaison with consent holder	N/A
6. Water meter and data logger accessible to Council	Inspections	Yes
7. Records of water taken in suitable format	Review of abstraction data	Yes
8. Measurements to be transmitted to Council in 'real time'	Data received	Yes
9. Adoption of best practicable option	Inspections, data review	Yes
10. Review provision	Consent expired – s124 protected	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>High</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

Table 39 Summary of performance for Consent 3911-3 (Waimate West WTP)

<b>Purpose: To take and use water from the Otakeho Stream for the Pope and Waimate West water supply schemes</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Max rate of take 85 L/s	Review of abstraction data	Yes
2. Installation of water meter and data logger and records of volumes abstracted	Inspections and abstraction data	Yes
3. Notification of installation of water meter and data logger and certification	Last verified August 2018	Overdue – booked in with verifier
4. Notification of equipment failure	Liaison with consent holder	N/A
5. Water meter and data logger accessible to Council	Inspections	Yes
6. Records of water taken in suitable format	Review of abstraction data	Yes
7. Adoption of best practicable option	Inspections, data review	Yes
8. Annual report on leak detection and water use efficiency	Report received	Yes

<b>Purpose: To take and use water from the Otakeho Stream for the Pope and Waimate West water supply schemes</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
9. Annual payments for wetland enhancements and riparian planting	Payment received	Yes
10. Review provision	Consent expired – s124 protected	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>High</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

Table 40 Summary of performance for Consent 4446-2 (Pope WTP)

<b>Purpose: To discharge treated backwash water from the Pope rural WTP into an unnamed tributary of the Mangawhero Stream in the Kaupokonui catchment</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Adoption of best practicable option	No longer exercised	N/A
2. Exercise of consent in accordance with application	No longer exercised	N/A
3. Maximum discharge of 6 m <sup>3</sup> /day at 5 L/s	No longer exercised	N/A
4. Limits on chlorine, pH and suspended solids in the discharge	No longer exercised	N/A
5. Efficient operation of settling pond	No longer exercised	N/A
6. No effects on receiving water	No longer exercised	N/A
7. Lapse provision	No longer exercised	N/A
8. Review provision	Consent expired June 2023	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>N/A</b>
Overall assessment of administrative performance in respect of this consent		<b>N/A</b>

Table 41 Summary of performance for Consent 4826-3 (Waimate West WTP)

<b>Purpose: To dam water and use a weir and water intake structure on the bed of the Otakeho Stream</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Consent holder to maintain weir in sound condition	Inspection	Yes
2. Repair and prevent erosion or scour of river bed or banks	Inspection	Yes

<b>Purpose: To dam water and use a weir and water intake structure on the bed of the Otakeho Stream</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
3. Structure maintained to allow for fish passage	Inspection and triennial fish surveys	Yes
4. Review provision	Next option for review June 2029	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>High</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

Table 42 Summary of performance for Consent 5451-2 (Waimate West WTP)

<b>Purpose: To dam water and use a water intake structure on the bed of the Mangawhero-iti Stream for water abstraction purposes</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Consent holder to maintain weir so it is fit for purpose	Inspections	Yes
2. Consent holder to repair any erosion or scour caused by weir	Inspections	Yes
3. Structure maintained to allow for fish passage	Inspections and triennial fish survey	Yes
4. Review provision	Next option for review June 2029	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>High</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

Table 43 Summary of performance for Consent 5452-2 (Waimate West WTP)

<b>Purpose: To dam water and use a weir, a water intake structure and a swing bridge on/over the bed of the Mangawhero Stream for water abstraction</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Consent holder to maintain weir so it is fit for purpose	Inspections	Yes
2. Consent holder to repair any erosion or scour caused by weir	Inspections	Yes
3. Structure maintained to allow for fish passage	Inspections and triennial fish survey	Yes
4. Review provision	Next option for review June 2029	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>High</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

Table 44 Summary of performance for Consent 10370-1 (Waimate West WTP)

<b>Purpose: To take and use groundwater for Waimate West water supply purposes</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Limits abstraction to 432 m <sup>3</sup> per 24 hour period	Review of abstraction data	Yes
2. Bore to be labelled	Inspection	Yes
3. The bore shall include a conduit (or 'dip tube')	Inspection	Yes
4. Installation of water meter and datalogger	Inspection	Yes
5. Data to be transmitted in correct format	Inspection and data review	Yes
6. Documentation of installation of flow recording equipment to be supplied	Verification certificate	Not verified – booked in with verifier
7. Notification of equipment failure	Liaison with consent holder	N/A
8. Equipment to be accessible to Council staff	Inspection	Yes
9. Undertake measures to minimise water take	Document and data review	Yes
10. Bore constructed to prevent entry of surface water	Inspection	Yes
11. Review condition	No further option to review prior to expiry June 2035	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>High</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

### 3.3.9 Waverley water supply

Table 45 Summary of performance for Consent 3313-3 (Waverley bores)

<b>Purpose: To take and use groundwater from the Fookes, Chester and Swinbourne Street bores for Waverley municipal supply purposes</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Combined take not to exceed 14.2 L/s or 900 m <sup>3</sup> /day	Review of abstraction data	Yes
2. Daily maximum volume and abstraction limits for each bore	Review of abstraction data	Yes
3. Bores to have permanent labelling	Inspections	Yes

<b>Purpose: To take and use groundwater from the Fookes, Chester and Swinbourne Street bores for Waverley municipal supply purposes</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
4. Water meter and data logger installed and maintained on each bore	Inspections	Yes
5. Install and maintain level recording equipment on each bore	Inspection	Yes
6. Recording of abstraction and level data	Data received	Yes
7. Notice of installation of water measuring equipment and certification	Last verified June 2019 (all bores)	Yes
8. Notification of equipment failure	Liaison with consent holder	Yes
9. Adoption of best practicable option	Inspections, review of data	Yes
10. No intrusion of salt water	Water quality sampling	Yes
11. Access to well provided for water measurement purposes	Inspections	Yes
12. Review of consent	Consent expired – s124 protected	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>High</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

### 3.3.10 Waverley Beach water supply

Table 46 Summary of performance for Consent 9563-1 (Waverley Beach supply)

<b>Purpose: To take and use groundwater for Waverley Beach water supply purposes</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Limit on abstraction rate	Consent not exercised, using another bore under permitted rule	Yes
2. No intrusion of salt water	Consent not exercised, using another bore under permitted rule	N/A
3. Bores to have permanent labels	Inspection	Yes
4. Installation and maintenance of water meter and data logger	Inspection and data received	Yes
5. Water meter certification	Last verified May 2019	Yes
6. Installation of water level monitoring devices	Consent not exercised, using another bore under permitted rule	N/A
7. Water level certification	Consent not exercised, using another bore under permitted rule	N/A



Purpose: <i>To take and use groundwater for Waverley Beach water supply purposes</i>		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
8. Water meter and data logger accessible to Council staff	Inspection	Yes
9. Notify Council of equipment failure	Liaison with consent holder	Yes
10. Water records to be provided by 31 July each year	Telemetered data provided	Yes
11. Adoption of best practicable option	Inspection and liaison with consent holder	Yes
12. Lapse provision	Consent exercised	N/A
13. Review provision	No further option to review prior to expiry June 2028	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>High</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

During the monitoring period, STDC demonstrated an overall good level of environmental performance and a high level of administrative performance. Ratings are as defined in Appendix II.

### 3.4 Recommendations from the 2021-2022 Annual Report

In the 2021-2022 Annual Report, it was recommended:

1. THAT in the first instance, monitoring of consented activities in relation to the STDC water supplies in the 2022-2023 year continue at the same level as in 2021-2022.
2. THAT eDNA analysis be undertaken as recommended in the attached Fish Survey Report during any future fish surveys.
3. THAT should there be issues with environmental or administrative performance in 2022-2023, monitoring may be adjusted to reflect any additional investigation or intervention as found necessary.
4. THAT the option for a review of resource consents 0989-3, 1811-4, 3770-3, 3927-3, 3928-3, 4826-3, 5365-2, 5451-2 and 5452-2 in June 2023, not be exercised, on the grounds that the current conditions are adequate.

Recommendations one and four were implemented, while it was not considered necessary to carry out any eDNA analysis as per recommendation two or to complete any additional monitoring or investigation as per recommendation three.

### 3.5 Alterations to monitoring programmes for 2023-2024

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.

No significant changes are planned for 2022-2023 monitoring programme. In addition to the current fish survey monitoring schedule, it has been recommended that eDNA analysis be undertaken where available during any future fish surveys.

It should be noted that the proposed programme represents a reasonable and risk-based level of monitoring for the site(s) in question. The Council reserves the right to subsequently adjust the programme from that initially prepared, should the need arise if potential or actual non-compliance is determined at any time during 2023-2024.

### 3.6 Exercise of optional review of consent

Resource consents 0213-4, 0232-4, 5574-2, and 9473-1 provide for an optional review of the consent in June 2024. Conditions of the consents allow the Council to review the consent for the purpose of ensuring the conditions are adequate to deal with any adverse effects on the environment.

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 that there are no grounds that require a review to be pursued or grounds to exercise the review option.

## 4 Recommendations

1. THAT in the first instance, monitoring of consented activities in relation to the STDC water supplies in the 2023-2024 year continue at the same level as in 2022-2023.
2. THAT eDNA analysis be undertaken as recommended in the attached Fish Survey Report during any future fish surveys.
3. THAT should there be issues with environmental or administrative performance in 2023-2024, monitoring may be adjusted to reflect any additional investigation or intervention as found necessary.
4. THAT the option for a review of resource consents 0213-4, 0232-4, 5574-2, and 9473-1, not be exercised, on the grounds that the current conditions are adequate.

## Glossary of common terms and abbreviations

The following abbreviations and terms may be used within this report:

Biomonitoring	Assessing the health of the environment using aquatic organisms.
Conductivity	Conductivity, an indication of the level of dissolved salts in a sample, usually measured at 25°C and expressed in $\mu\text{S}/\text{cm}$ .
Cumec	A volumetric measure of flow- 1 cubic metre per second ( $1 \text{ m}^3\text{s}^{-1}$ ).
E.coli	Escherichia coli, an indicator of the possible presence of faecal material and pathological micro-organisms. Usually expressed as colony forming units per 100 millilitre sample.
Fresh	Elevated flow in a stream, such as after heavy rainfall.
$\text{g}/\text{m}^3$	Grams per cubic metre, and equivalent to milligrams per litre (mg/L). In water, this is also equivalent to parts per million (ppm), but the same does not apply to gaseous mixtures.
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.
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.
Incident register	The 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.
L/s	Litres per second.
$\text{m}^2$	Square Metres.
MCI	Macroinvertebrate community index; a numerical indication of the state of biological life in a stream that takes into account the sensitivity of the taxa present to organic pollution in stony habitats.
SQMCI	Semi quantitative macroinvertebrate community index; a numerical indication of the state of biological life in a stream that takes into account the sensitivity <i>and abundance</i> of the taxa present to organic pollution in stony habitats.
Mixing zone	The zone below a discharge point where the discharge is not fully mixed with the receiving environment. For a stream, conventionally taken as a length equivalent to 7 times the width of the stream at the discharge point.
$\mu\text{S}/\text{cm}$	Microsiemens per centimetre.
NWMR	National Water Metering Regulations 2010.
NTU	Nephelometric Turbidity Unit, a measure of the turbidity of water.
pH	A numerical system for measuring acidity in solutions, with 7 as neutral. Numbers lower than 7 are increasingly acidic and higher than 7 are increasingly alkaline. The scale is logarithmic i.e. a change of 1 represents a ten-fold change in strength. For example, a pH of 4 is ten times more acidic than a pH of 5.

Resource consent	Refer Section 87 of the RMA. Resource consents include land use consents (refer Sections 9 and 13 of the RMA), coastal permits (Sections 12, 14 and 15), water permits (Section 14) and discharge permits (Section 15).
RMA	<i>Resource Management Act 1991</i> and including all subsequent amendments.
SS	Suspended solids.
Temp	Temperature, measured in °C (degrees Celsius).
Turb	Turbidity, expressed in NTU or FNU.

For further information on analytical methods, contact an Environmental Assurance Manager.

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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)

### Water abstraction permits

Section 14 of the RMA stipulates that no person may take, use, dam or divert any water, unless the activity is expressly allowed for by a resource consent or a rule in a regional plan, or it falls within some particular categories set out in Section 14. Permits authorising the abstraction of water are issued by the Council under Section 87(d) of the RMA.

### Water discharge permits

Section 15(1)(a) of the RMA stipulates that no person may discharge any contaminant into water, unless the activity is expressly allowed for by a resource consent or a rule in a regional plan, or by national regulations. Permits authorising discharges to water are issued by the Council under Section 87(e) of the RMA.

### Air discharge permits

Section 15(1)(c) of the RMA stipulates that no person may discharge any contaminant from any industrial or trade premises into air, unless the activity is expressly allowed for by a resource consent, a rule in a regional plan, or by national regulations. Permits authorising discharges to air are issued by the Council under Section 87(e) of the RMA.

### Discharges of wastes to land

Sections 15(1)(b) and (d) of the RMA stipulate that no person may discharge any contaminant onto land if it may then enter water, or from any industrial or trade premises onto land under any circumstances, unless the activity is expressly allowed for by a resource consent, a rule in a regional plan, or by national regulations. Permits authorising the discharge of wastes to land are issued by the Council under Section 87(e) of the RMA.

### Land use permits

Section 13(1)(a) of the RMA stipulates that no person may in relation to the bed of any lake or river use, erect, reconstruct, place, alter, extend, remove, or demolish any structure or part of any structure in, on, under, or over the bed, unless the activity is expressly allowed for by a resource consent, a rule in a regional plan, or by national regulations. Land use permits are issued by the Council under Section 87(a) of the RMA.

### 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.

## Eltham WTP (STDC)



**Discharge 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:            5 November 2012

Commencement  
Date:                        5 November 2012

**Conditions of Consent**

Consent Granted:        To discharge reservoir contents from the Eltham Water  
Supply Reservoir onto land adjacent to the Waingongoro  
River at or about (NZTM) 1708817E-5639437N

Expiry Date:              1 June 2029

Review Date(s):        June 2017, June 2023

Site Location:            Finnerty Road Ngaere Eltham

Legal Description:      Lot 1 DP 11209 Blk V Ngaere SD  
(Discharge source & site)

Catchment:                Waingongoro

*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 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 including, but not limited to, ensuring the discharge occurs over a period in excess of 4 days.
2. The consent holder shall notify the Council of the intention to discharge at least 2 working days prior to discharge occurring. Notification shall include the consent number and a brief description of the activity consented and be emailed to [worknotification@trc.govt.nz](mailto:worknotification@trc.govt.nz).
3. The volume of the discharge shall not exceed 5000 cubic metres and shall occur no more frequently than once every calendar year.
4. The discharge shall only commence when flows in the Waingongoro River at Eltham road are greater than 1050 litres per second.
5. All reservoir contents shall be directed over land before entering the Waingongoro River. There shall be no direct discharge to the Waingongoro River.
6. The consent holder shall, as far as practicable, reduce the volume of sediment and silt in the discharge before entering the Waingongoro River, including the off-site disposal of settled solids from the bottom of the reservoir.
7. The maximum concentration of the suspended solid contained in the discharge shall not exceed 100 gm<sup>-3</sup>.
8. After allowing for reasonable mixing, within a mixing zone extending 100 metres downstream of the discharge point, the discharge shall not, either by itself or in combination with other discharges, give rise to any or all of the following effects in the receiving water:
  - a) the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials;
  - b) any conspicuous change in the colour or visual clarity;
  - c) any emission of objectionable odour;
  - d) the rendering of fresh water unsuitable for consumption by farm animals;
  - e) any significant adverse effects on aquatic life.

Consent 0989-3

9. 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 2017 and/or June 2023, 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 November 2012

For and on behalf of  
Taranaki Regional Council

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**Director-Resource Management**





**Discharge 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: 28 June 2017

Commencement Date: 28 June 2017

**Conditions of Consent**

Consent Granted: To discharge filter backwash from the Eltham Water Treatment Plant via a settling pond into an unnamed tributary of the Waingongoro River

Expiry Date: 1 June 2035

Review Date(s): June 2023, June 2029

Site Location: Eltham Water Treatment Plant, 225B Finnerty Road, Ngaere

Grid Reference (NZTM) 1709710E-5638778N

Catchment: Waingongoro

*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 at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any actual or likely adverse effect on the environment associated with the discharge of contaminants from the site.
2. Constituents of the discharge shall meet the standards shown in the following table.

<b>Constituent</b>	<b>Standard</b>
Suspended solids	Concentration not greater than 20 gm <sup>-3</sup>
Free available chlorine	Concentration no greater than 0.1 gm <sup>-3</sup>
pH	Within the range 6.0 to 9.0

3. After allowing for a mixing zone of 25 metres downstream of the discharge point, the discharge shall not give rise to any of the following effects in the unnamed tributary of the Waingongoro River;
  - (a) the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials;
  - (b) any conspicuous change in the colour or visual clarity;
  - (c) any emission of objectionable odour;
  - (d) the rendering of fresh water unsuitable for consumption by farm animals; and
  - (e) any significant adverse effects on aquatic life.
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 28 June 2017

For and on behalf of  
Taranaki Regional Council

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A D McLay  
**Director - Resource Management**

## **Water 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

Consent Granted  
Date: 15 December 1999

### **Conditions of Consent**

Consent Granted: To take and use water from the Waingongoro River for  
municipal water supply purposes at or about GR:  
Q20:188-014

Expiry Date: 1 June 2018

Review Date(s): June 2002, June 2006, June 2012

Site Location: Finnerty Road, Ngaere, Eltham

Legal Description: Pt 31 Lot 2 DP 2918 Blk V Ngaere SD

Catchment: Waingongoro

## Consent 0213-3

### General conditions

- a) That on receipt of a requirement from the General Manager, Taranaki Regional Council (hereinafter the General Manager), the consent holder shall, within the time specified in the requirement, supply the information required relating to the exercise of this consent.
- b) That 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) That 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. THAT the consent allows the abstraction of:
  - a) 4020 cubic metres/day [47 litres/second] on an unrestricted basis; and
  - b) 1500 cubic metres/day [17 litres/second] on a restricted basis as per condition 6.
2. THAT the consent holder shall install and maintain, to the satisfaction of the General Manager, Taranaki Regional Council, a measuring device capable of recording daily rates of abstraction and shall make such records available to the General Manager, Taranaki Regional Council, upon request.
3. THAT the exercise of this consent shall be undertaken in general accordance with the information supplied in support of application 534, particularly regarding the promotion of the efficiency of use of the water, and the installation of a telemetry system at the water treatment plant.
4. THAT the consent holder shall quantify the reticulation system losses by 31 December 2000 and report the results to the General Manger, Taranaki Regional Council, by 28 February 2001.
5. THAT the consent holder shall investigate and report on the blocking of the intake, and options for addressing this; the report to be received by the General Manager, Taranaki Regional Council, not later than 10 months from the date the consent is granted.
6. THAT the Taranaki Regional Council by the agreement of the consent holder, shall review condition 1(b), pursuant to section 128 of the Resource Management Act 1991, by giving notice of review during the month of June 2002, for the purpose of assessing the success of consent holder 5437 in implementing water conservation measures in reducing plant water use and to demonstrate a need for the water.
7. THAT by the agreement of the consent holder, the consent holder shall mitigate the effects of the abstraction by donating \$10,000 [goods and services tax exclusive] to the Taranaki Tree Trust by 31 January 2000, for the purpose of providing riparian management in the Waingongoro catchment, in the reach above the Climie Stream, and in the Climie Stream catchment.

Consent 0213-3

8. THAT the Taranaki Regional Council may review, according to section 128 of the Resource Management Act 1991, any or all of the conditions of this consent by giving notice of review during June 2002 and/or June 2006 and/or June 2012, for the purpose of ensuring that the conditions are adequate to deal with any significant adverse effects on the environment arising from the exercise of this consent, which either were 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 15 December 1999

For and on behalf of  
Taranaki Regional Council

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**General Manager**



## Hawera WTP (STDC)





**Water 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: 28 October 2008 [Granted: 7 June 2000]

**Conditions of Consent**

Consent Granted: To take and use water from the Kapuni Stream for  
municipal water supply purposes at or about (NZTM)  
1701447E-5630678N

Expiry Date: 1 June 2020

Review Date(s): June 2011

Site Location: Kapuni Stream, Palmer Road, Kapuni

Legal Description: Adjacent to Lot 1 DP 10570 & Lot 3 DP 10570 Blk XVI  
Kaupokonui SD

Catchment: Kapuni

**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. That the consent allows the abstraction of:
  - a) 10756.8 cubic metres/ day [124.5 litres/second] on an unrestricted basis; and
  - b) 1343.2 cubic metres/ day [15.5 litres/second] on a restricted basis as per condition 4.
2. The consent holder shall install and maintain, to the satisfaction of the Chief Executive, Taranaki Regional Council, a measuring device(s) capable of recording daily rates of abstraction and shall make such records available to the Chief Executive, Taranaki Regional Council, on a monthly basis.

**Condition 3 [changed]**

3. The exercise of this consent shall be undertaken in general accordance with the information supplied in support of applications 533 and 6128, particularly regarding the promotion of the efficiency of use of the water and reporting on efficiency measures every two years from the commencement of this consent.

**Conditions 4 to 7 [unchanged]**

4. That the water available under condition 1(b) shall only be used for those times where peak demand exceeds 124.5 litres/second. On each occasion that condition 1(b) is exercised, the consent holder shall, within seven days of the reduction of demand below 124.5 litres/second, provide a written report to the Chief Executive, Taranaki Regional Council, detailing the volumes of water abstracted, the time period during which the abstraction exceeded 124.5 litres/second, and the conservation measures adopted during that time.

## Consent 0146-2

5. That, by the agreement of the consent holder, the consent holder shall mitigate the effects of the abstraction by donating a minimum amount of \$3,150 and a maximum of \$12,000 per annum [GST exclusive and inflation adjusted], with a total contribution not to exceed \$63,000 [GST exclusive and inflation adjusted] to the Taranaki Tree Trust, for the purpose of providing riparian management in the Kapuni Stream and its tributaries, preferably above Skeet Road.
6. The consent holder shall prepare and subsequently update and maintain a management plan for the Kapuni Stream between GR's: Q20:116-928 and Q20: 110-913, in conjunction with the other users, including but not restricted to the Natural Gas Corporation of New Zealand Limited and Petrochem Limited, to manage the abstraction of water from and discharge of contaminants to the Kapuni Stream. The management plan shall be submitted to the Chief Executive, Taranaki Regional Council, for approval within three months of the granting of the consent.
7. The consent holder shall undertake a leak detection and repair programme throughout the term of the consent within Hawera, Normanby, Okaiawa and Ohawe Beach townships and report on this programme annually to the Chief Executive, Taranaki Regional Council.

### **Condition 8 [new]**

8. The point of abstraction shall remain at its current location [at or about GR: Q20:115-925 NZMSG] until the new intake to be constructed pursuant to resource consent 7413-1 is commissioned. At that time the point of abstraction shall be at the new intake [at or about 1701447E-5630678N NZTM].

### **Condition 9 [changed, previously condition 8]**

9. The Taranaki Regional Council may review, according to section 128 of the Resource Management Act 1991, any or all of the conditions of this consent by giving notice of review during June 2011, 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 consent, which either were not foreseen at the time the application was considered or which it was not appropriate to deal with at the time, and for the purpose of assessing the implementation of the leak detection and repair programme specified in condition 7.

Signed at Stratford on 28 October 2008

For and on behalf of  
Taranaki Regional Council

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**Director-Resource Management**



**Discharge 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

Change To  
Conditions Date: 1 February 2007 [Granted: 26 January 2006]

**Conditions of Consent**

Consent Granted: To discharge up to 227 cubic metres/day of settling pond supernatant from a water treatment plant into the Kapuni Stream at or about GR: Q20:112-916

Expiry Date: 1 June 2023

Review Date(s): June 2008, June 2011, June 2017

Site Location: Palmer Road, Kapuni

Legal Description: Lot 2 DP 3675 Lot 2 DP 10737 Lot 2 DP 15107 Blk XVI  
Kaupokonui SD

Catchment: Kapuni

### **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**

#### **Conditions 1 to 3 – 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.
2. The exercise of this consent shall be undertaken generally in accordance with the documentation submitted in support of application 4516. In the case of any contradiction between the documentation submitted in support of application 4516 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.

#### **Condition 4 – changed**

4. The consent holder shall address the issue of a permanent solution for water treatment residuals with the construction of a new water treatment plant, planned for 2010.

#### **Condition 5 to 9 – unchanged**

5. The consent holder shall properly and efficiently maintain and operate the settlement facility to the general satisfaction of the Chief Executive, Taranaki Regional Council.
6. After allowing for a mixing zone of 25 metres downstream of the discharge, the discharge shall not give rise to any of the following effects in the Kapuni Stream:

Consent 0933-3

- i) the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials;
- ii) any conspicuous change in the colour or visual clarity;
- iii) any emission of objectionable odour;
- iv) the rendering of fresh water unsuitable for consumption by farm animals; and
- v) any significant adverse effects on aquatic life.

7. The discharge quality shall not exceed the following limits at all times:

<b>Component</b>	<b>Concentration</b>
suspended solids	20 g/m <sup>3</sup>
free available chlorine	0.1 g/m <sup>3</sup>
pH	6.5 - 8.5

8. 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.
9. 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 2008 and/or June 2011 and/or June 2017, 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 1 February 2007

For and on behalf of  
Taranaki Regional Council

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**Director-Resource Management**





**Water 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: 10 February 2009 [Granted: 2 November 2006]

**Conditions of Consent**

Consent Granted: To take and use up to 4,320 m<sup>3</sup>/day of groundwater at a maximum rate of 50 l/s as a combined total from up to three water bores in a bore field at the Kapuni reservoir site for municipal, rural, industrial, and recreational supply purposes at or about (NZTM) 1701067E-5629178N

Expiry Date: 1 June 2023

Review Date(s): June 2011, June 2017

Site Location: Kapuni reservoir site, off 1054 Skeet Road, Kapuni

Legal Description: Lot 2 DP 6410 Blk XVI Kaupokonui SD

Catchment: Kapuni

## Consent 7002-1

### 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 to 6 [unchanged]

1. The exercise of this consent shall be undertaken in general accordance with the documentation submitted in support of application 4419 and shall ensure the efficient and effective use of water. In the case of any contradiction between the documentation submitted in support of application 4419 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 seven days prior to the exercise of this consent.
3. Prior to the exercise of this consent, the consent holder shall provide a report to Chief Executive, Taranaki Regional Council, detailing the results of pump testing (72-hour constant discharge at 50 l/s and recovery tests) of the bores used for water supply to show (1) that the abstraction is sustainable, and (2) the effects of the abstraction on flows in the Kapuni Stream.
4. The volume of groundwater abstracted shall not exceed 4,320 cubic metres per day at a rate not exceeding 50 litres per second as a combined total from the bores in the bore field.
5. The abstraction shall not cause more than a 10% lowering of the static water level by interference in any adjacent registered water bore located beyond the boundary of the bore field.
6. The consent holder shall maintain daily records of the abstraction from each bore including date, abstraction rate and daily volume, and pumping hours, and make these records available to the Chief Executive, Taranaki Regional Council, no later than 31 July of each year, or upon request.

Consent 7002-1

**Condition 7 [previously condition 8]**

7. The consent holder shall install and maintain a measuring device approved by the Chief Executive, Taranaki Regional Council, on each bore for the purposes of accurately recording the abstraction of water.

**Condition 8 [previously condition 9]**

8. This consent shall be subject to monitoring by the Taranaki Regional Council and the consent holder shall meet all reasonable costs associated with the monitoring.

**Condition 9 [previously condition 10]**

9. This consent shall lapse on the expiry of five years after the date of commencement 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.

**Condition 10 [previously condition 11]**

10. 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 2011 and/or June 2017, 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 10 February 2009

For and on behalf of  
Taranaki Regional Council

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**Director-Resource Management**



**Land Use Consent**  
**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: 5 February 2009

**Conditions of Consent**

Consent Granted: To erect, use and maintain a water intake structure on the bed of the Kapuni Stream, including temporary damming and diversion during construction at or about (NZTM) 1701447E-5630678N

Expiry Date: 1 June 2023

Review Date(s): June 2011, June 2017

Site Location: Kapuni Stream, Palmer Road, Kapuni

Legal Description: Lot 1 DP 10570 Lot 1 DP 3675 Lot 3 DP 10570 Blk XVI  
Kaupokonui SD

Catchment: Kapuni

### 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 in accordance with the documentation submitted in support of application 6131, in particular Drawing No. 80066/19. If there is any conflict between the documentation submitted in support of application 6131 and the conditions of this consent, the conditions of this consent shall prevail.
2. Any disturbance of parts of the riverbed covered by water and/or any works which may result in downstream discolouration of water shall be undertaken only between 1 November and 30 April, except where this requirement is waived in writing by the Chief Executive, Taranaki Regional Council.
3. 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 installation 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 riverbed or discharges to water. Notification shall include the consent number and a brief description of the activity consented and be emailed to [worknotification@trc.govt.nz](mailto:worknotification@trc.govt.nz). Notification by fax or post is acceptable only if the consent holder does not have access to email.
4. The consent holder shall ensure that the area and volume of riverbed disturbance shall, so far as is practicable, be minimised and any areas which are disturbed shall, so far as is practicable, be reinstated.
5. The consent holder shall take all reasonable steps to:
  - a. minimise the amount of sediment discharged to the stream;
  - b. minimise the amount of sediment that becomes suspended in the stream; and
  - c. mitigate the effects of any sediment in the stream.

Undertaking work in accordance with *Guidelines for Earthworks in the Taranaki Region*, by the Taranaki Regional Council, will achieve compliance with this condition.

## Consent 7413-1

6. Except with the written agreement of the Chief Executive, Taranaki Regional Council, the structure authorised by this consent shall be removed and the area reinstated, if and when the structure is no longer required. A further resource consent may be required to authorise the removal of the structure, and the consent holder is advised to seek advice from the Council on this matter.
7. The consent holder shall monitor and maintain the fish pass, to ensure it performs as designed and allows for the effective passage of fish.
8. In the event that any archaeological remains are discovered as a result of works authorised by this consent, the works shall cease immediately at the affected site and tangata whenua and the Chief Executive, Taranaki Regional Council, shall be notified within one working day. Works may recommence at the affected area when advised to do so by the Chief Executive, Taranaki Regional Council. Such advice shall be given after the Chief Executive has considered: tangata whenua interest and values, the consent holder's interests, the interests of the public generally, and any archaeological or scientific evidence. The New Zealand Police, Coroner, and Historic Places Trust shall also be contacted as appropriate, and the work shall not recommence in the affected area until any necessary statutory authorisations or consents have been obtained.
9. This consent shall lapse on 31 March 2014, 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.
10. 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 2011 and/or June 2017, 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 February 2009

For and on behalf of  
Taranaki Regional Council

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**Director-Resource Management**





**Discharge 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: 13 March 2009

**Conditions of Consent**

Consent Granted: To discharge membrane backwash water and cleaning  
wastewater from the Kapuni Water Treatment Plant into  
the Kapuni Stream at or about (NZTM) 1700804E-  
5628910N

Expiry Date: 1 June 2023

Review Date(s): June 2011, June 2017

Site Location: Skeet Road, Kapuni

Legal Description: Lot 1 DP 18183 Blk XVI Kaupokonui SD

Catchment: Kapuni

### 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. After allowing for reasonable mixing, within a mixing zone extending 25 metres downstream of the discharge point, the discharge shall not, either by itself or in combination with other discharges, give rise to any or all of the following effects in the receiving water:
  - a) the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials;
  - b) any conspicuous change in the colour or visual clarity;
  - c) any emission of objectionable odour;
  - d) the rendering of fresh water unsuitable for consumption by farm animals;
  - e) any significant adverse effects on aquatic life.
3. After allowing for reasonable mixing, within a mixing zone extending 25 metres downstream of the of the discharge point, the discharge shall not give rise to an increase in the turbidity of the Kapuni Stream of more than 50%, as determined using NTU [nephelometric turbidity units].
4. Constituents of the discharge shall meet the standards shown in the following table.

<b>Constituent</b>	<b>Standard</b>
free available chlorine	Concentration not greater than 0.1 gm <sup>-3</sup>
pH	Within the range 6.5 to 8.5
suspended solids	Concentration not greater than 20 gm <sup>-3</sup>

This condition shall apply before entry of the treated wastewater into the receiving waters at a designated sampling point approved by the Chief Executive, Taranaki Regional Council.

Consent 7446-1

5. This consent shall lapse on 31 March 2014, 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.
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 2011 and/or June 2017, 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 13 March 2009

For and on behalf of  
Taranaki Regional Council

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**Director-Resource Management**



**Land Use Consent**  
**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: 20 February 2009

**Conditions of Consent**

Consent Granted: To install, use and maintain an outfall structure on the bank of the Kapuni Stream for the Kapuni Water Treatment Plant at or about (NZTM) 1700804E-5628910N

Expiry Date: 1 June 2023

Review Date(s): June 2011, June 2017

Site Location: Skeet Road, Kapuni

Legal Description: Lot 1 DP 18183 Blk XVI Kaupokonui SD

Catchment: Kapuni

## Consent 7447-1

### 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

1. The exercise of this consent shall be undertaken in accordance with the documentation submitted in support of application 6202, in particular Drawing No. 0652C010. If there is any conflict between the documentation submitted in support of application 6202 and the conditions of this consent, the conditions of this consent shall prevail.
2. Any disturbance of parts of the riverbed covered by water and/or any works which may result in downstream discolouration of water shall be undertaken only between 1 November and 30 April, except where this requirement is waived in writing by the Chief Executive, Taranaki Regional Council.
3. 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 installation 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 riverbed or discharges to water. Notification shall include the consent number and a brief description of the activity consented and be emailed to [worknotification@trc.govt.nz](mailto:worknotification@trc.govt.nz). Notification by fax or post is acceptable only if the consent holder does not have access to email.
4. The consent holder shall ensure that the area and volume of riverbed disturbance shall, so far as is practicable, be minimised and any areas which are disturbed shall, so far as is practicable, be reinstated.
5. The consent holder shall take all reasonable steps to:
  - a. minimise the amount of sediment discharged to the stream;
  - b. minimise the amount of sediment that becomes suspended in the stream; and
  - c. mitigate the effects of any sediment in the stream.

Undertaking work in accordance with *Guidelines for Earthworks in the Taranaki Region*, by the Taranaki Regional Council, will achieve compliance with this condition.

## Consent 7447-1

6. Except with the written agreement of the Chief Executive, Taranaki Regional Council, the structure authorised by this consent shall be removed and the area reinstated, if and when the structure is no longer required. A further resource consent may be required to authorise the removal of the structure, and the consent holder is advised to seek advice from the Council on this matter.
7. In the event that any archaeological remains are discovered as a result of works authorised by this consent, the works shall cease immediately at the affected site and tangata whenua and the Chief Executive, Taranaki Regional Council, shall be notified within one working day. Works may recommence at the affected area when advised to do so by the Chief Executive, Taranaki Regional Council. Such advice shall be given after the Chief Executive has considered: tangata whenua interest and values, the consent holder's interests, the interests of the public generally, and any archaeological or scientific evidence. The New Zealand Police, Coroner, and Historic Places Trust shall also be contacted as appropriate, and the work shall not recommence in the affected area until any necessary statutory authorisations or consents have been obtained.
8. This consent shall lapse on 31 March 2014, 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.
9. 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 2011 and/or June 2017, 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 20 February 2009

For and on behalf of  
Taranaki Regional Council

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**Director-Resource Management**





**Land Use Consent**  
**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: 21 February 2013

Commencement Date: 21 February 2013

**Conditions of Consent**

Consent Granted: To construct, place and use a water intake structure on the bed of the Waiaua River for water abstraction purposes

Expiry Date: 1 June 2030

Review Date(s): June 2018, June 2024

Site Location: Opunake Water Treatment Plant, 470 Ihaia Road, Opunake

Legal Description: Sec 4 Blk X Opunake SD (Site of structure)

Grid Reference (NZTM) 1678013E-5635411N

Catchment: Waiaua

*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 [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 water intake structure shall:
  - a) have a 0.75 mm slot size wedge wire screen;
  - b) be 300 mm in diameter;
  - c) 1500 mm in length; and
  - d) the bottom of the screen to sit a nominal 225 mm above the existing riverbed.
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 installation 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 riverbed or discharges to water. Notification shall include the consent number and a brief description of the activity consented and be emailed to [worknotification@trc.govt.nz](mailto:worknotification@trc.govt.nz). Notification by fax or post is acceptable only if the consent holder does not have access to email.
3. The consent holder shall ensure that the area and volume of riverbed disturbance shall, so far as is practicable, be minimised and any areas which are disturbed shall, so far as is practicable, be reinstated.
4. The consent holder shall take all reasonable steps to:
  - a. minimise the amount of sediment discharged to the river;
  - b. minimise the amount of sediment that becomes suspended in the river; and
  - c. mitigate the effects of any sediment in the river.

Undertaking work in accordance with *Guidelines for Earthworks in the Taranaki Region*, by the Taranaki Regional Council, will achieve compliance with this condition.

5. The consent holder shall ensure that the water intake structure is appropriately screened to avoid the entrapment of freshwater fauna. The maximum screen slot velocity shall be no more than 0.15 m/s at design capacity.
6. The water intake structure shall not obstruct fish passage.
7. To mitigate the adverse environmental effects of this consent the consent holder shall make a single payment of \$20,000 (excluding GST) to the Taranaki Regional Council as a financial contribution for the purpose of providing riparian planting and management in the Waiaua Stream catchment. The payment shall be made before 1 September 2013.

## Consent 9473-1

8. In the event that any archaeological remains are discovered as a result of works authorised by this consent, the works shall cease immediately at the affected site and tangata whenua and the Chief Executive, Taranaki Regional Council, shall be notified within one working day. Works may recommence at the affected area when advised to do so by the Chief Executive, Taranaki Regional Council. Such advice shall be given after the Chief Executive has considered: tangata whenua interest and values, the consent holder's interests, the interests of the public generally, and any archaeological or scientific evidence. The New Zealand Police, Coroner, and Historic Places Trust shall also be contacted as appropriate, and the work shall not recommence in the affected area until any necessary statutory authorisations or consents have been obtained.
9. Except with the written agreement of the Chief Executive, Taranaki Regional Council, the structure authorised by this consent shall be removed and the area reinstated, if and when the structure is no longer required. A further resource consent may be required to authorise the removal of the structure, and the consent holder is advised to seek advice from the Council on this matter.
10. This consent shall lapse on 31 March 2018, 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.
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 2018 and/or June 2024, 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 21 February 2013

For and on behalf of  
Taranaki Regional Council

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**Director-Resource Management**



Inaha WTP (STDC)



**Water 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 (Change):	29 May 2014	
Commencement Date (Change):	29 May 2014	(Granted: 29 August 2006)

**Conditions of Consent**

Consent Granted:	To take water from the Mangatoki Stream in the Waingongoro catchment for Inaha rural water supply purposes	
Expiry Date:	01 June 2023	
Review Date(s):	June 2018	
Site Location:	Inaha water supply, 1551 Upper Palmer Road, Mahoe	
Legal Description:	Sec 24 Blk VII Kaupokonui SD Lot 2 DP 421857 Blk VIII Kaupokonui SD (Site of take)	
Grid Reference (NZTM)	1700531E-5642453N and 1700921E-5641908N	
Catchment:	Waingongoro	
Tributary:	Mangatoki	

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

### General condition

- 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 combined rate of taking shall not exceed 29 litres per second, and the volume taken in any 24 hour period ending at midnight (New Zealand Standard Time) shall not exceed 2504 cubic metres.
3. The consent holder shall use the gravity take preferentially over the pumped take. The pumped take may be used exclusively only when the gravity take is not operational due to maintenance, capital works or flood damage.
4. Before exercising this consent the consent holder shall install, and thereafter maintain a water meter and a datalogger at the site of taking (or a nearby site in accordance with Regulation 10 of the *Resource Management (Measurement and Reporting of Water Takes) Regulations 2010*. The water meter and datalogger shall be tamper-proof and shall measure and record the rate and volume of water taken to an accuracy of  $\pm 5\%$ . Records of the date, the time and the rate and volume of water taken at intervals not exceeding 15 minutes, shall be made available to the Chief Executive, Taranaki Regional Council at all reasonable times.

*Note: Water meters and dataloggers must be installed, and regularly maintained, in accordance with manufacturer's specifications in order to ensure that they meet the required accuracy. Even with proper maintenance water meters and dataloggers have a limited lifespan.*



## Consent 1185-3.1

5. The consent holder shall provide the Chief Executive, Taranaki Regional Council with a document from a suitably qualified person certifying that water measuring and recording equipment required by the conditions of this consent ('the equipment'):
  - (a) has been installed and/or maintained in accordance with the manufacturer's specifications; and/or
  - (b) has been tested and shown to be operating to an accuracy of  $\pm 5\%$ .The documentation shall be provided:
  - (i) within 30 days of the installation of a water meter or datalogger;
  - (ii) at other times when reasonable notice is given and the Chief Executive, Taranaki Regional Council has reasonable evidence that the equipment may not be functioning as required by this consent; and
  - (iii) no less frequently than once every five years.
6. If any measuring or recording equipment breaks down, or for any reason is not operational, the consent holder shall advise the Chief Executive, Taranaki Regional Council immediately. Any repairs or maintenance to this equipment must be undertaken by a suitably qualified person.
7. The intake structures shall be maintained to the satisfaction of the Chief Executive, Taranaki Regional Council. Once the abstraction licensed by this consent is no longer required, the consent holder shall remove the intake structure to the satisfaction of the Chief Executive, Taranaki Regional Council.
8. The water meter and datalogger shall be accessible to Taranaki Regional Council officers at all reasonable times for inspection and/or data retrieval. In addition the data logger shall be designed and installed so that Council officers can readily verify that it is accurately recording the required information.
9. The records of water taken shall:
  - (a) be in a format that, in the opinion of the Chief Executive, Taranaki Regional Council, is suitable for auditing;
  - (b) specifically record the water taken as 'zero' when no water is taken.
10. That measurements made in accordance with condition 4 be transmitted to Taranaki Regional Councils computer system to maintain "real time" records of the water taken, with a delay of no more than 2 hours.
11. The intake structures shall be screened to avoid the entrainment of fish.
12. The intake structure shall be maintained and operated so that the passage of fish is not obstructed.

## Consent 1185-3.1

13. The consent holder shall promote the efficient use of water and undertake a leak detection and repair programme through out the term of the consent for the Inaha Water Supply Scheme and report on this programme annually for the duration of this consent.
14. 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 2011 and/or June 2018 for the purposes 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 May 2014

For and on behalf of  
Taranaki Regional Council

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A D McLay  
**Director - Resource Management**

**Water 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  
Chief Executive  
Private Bag 902  
HAWERA 4800

Consent Granted  
Date: 29 August 2006

**Conditions of Consent**

Consent Granted: To take water from the Waingongoro River for Inaha rural  
water supply purposes at or about GR: Q20:104-070

Expiry Date: 1 June 2023

Review Date(s): June 2011, June 2018

Site Location: Inaha Water Supply, Upper Palmer Road, Mahoe

Legal Description: Sec 15 Blk VIII Kaupokonui SD

Catchment: Waingongoro

### **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 3450. In the case of any contradiction between the documentation submitted in support of application 3450 and the conditions of this consent, the conditions of this consent shall prevail.
3. The volume of water abstracted shall not exceed 2,592 cubic metres/day at a rate not exceeding 30 litres/second.
4. The consent holder shall install and operate a measuring device capable of accurately recording daily rates of abstraction and shall measure, record and make such records available to the Chief Executive, Taranaki Regional Council, upon request.
5. The intake structure shall be maintained to the satisfaction of the Chief Executive, Taranaki Regional Council. Once the abstraction licensed by this consent is no longer required, the consent holder shall remove the intake structure to the satisfaction of the Chief Executive, Taranaki Regional Council.
6. All intake structures shall be screened to avoid the entrainment of fish.
7. The intake structure shall be maintained and operated so that the passage of fish is not obstructed.
8. The consent holder shall promote the efficient use of water and undertake a leak detection and repair programme throughout the term of the consent for the Inaha Water Supply Scheme and report on this programme annually for the duration of this consent.

Consent 1186-3

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.
10. 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 2011 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 29 August 2006

For and on behalf of  
Taranaki Regional Council

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**Director-Resource Management**



**Discharge 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  
Chief Executive  
Private Bag 902  
Hawera 4640

Decision Date: 15 August 2017

Commencement Date: 15 August 2017

**Conditions of Consent**

Consent Granted: To discharge backwash wastewater from the Inaha Rural Water Supply Treatment Plant into an unnamed tributary of the Mangatoki Stream

Expiry Date: 01 June 2035

Review Date(s): June 2023, June 2029

Site Location: Inaha Water Treatment Plant, 1056 Opunake Road, Mahoe

Grid Reference (NZTM) 1700944E - 5641206N

Catchment: Waingongoro

Tributary: Mangatoki

*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 at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any actual or likely adverse effect on the environment associated with the discharge of contaminants from the site.
2. Constituents of the discharge shall meet the standards shown in the following table.

<b>Constituent</b>	<b>Standard</b>
Suspended solids	Concentration not greater than 20 gm <sup>-3</sup>
Free available chlorine	Concentration no greater than 0.1 gm <sup>-3</sup>
pH	Within the range 6.0 to 9.0

3. After allowing for a mixing zone of 25 metres downstream of the discharge point, the discharge shall not give rise to any of the following effects in the Mangatoki Stream:
  - (a) the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials;
  - (b) any conspicuous change in the colour or visual clarity;
  - (c) any emission of objectionable odour;
  - (d) the rendering of fresh water unsuitable for consumption by farm animals; and
  - (e) any significant adverse effects on aquatic life.
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 15 August 2017

For and on behalf of  
Taranaki Regional Council

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A D McLay  
**Director - Resource Management**



**Discharge 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  
Chief Executive  
Private Bag 902  
Hawera 4640

Decision Date: 15 August 2017

Commencement Date: 15 August 2017

**Conditions of Consent**

Consent Granted: To discharge uncontaminated overflow water from the Inaha Rural Water Supply Treatment Plant via a settlement pond into an unnamed tributary of the Mangatoki Stream

Expiry Date: 01 June 2035

Review Date(s): June 2023, June 2029

Site Location: Inaha Water Treatment Plant, 1056 Opunake Road, Mahoe

Grid Reference (NZTM) 1700794E-5641844N

Catchment: Waingongoro

Tributary: Mangatoki

*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 at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any actual or likely adverse effect on the environment associated with the discharge of contaminants from the site.
2. After allowing for a mixing zone of 25 metres downstream of the discharge point, the discharge shall not give rise to any of the following effects in the Mangatoki Stream:
  - (a) the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials;
  - (b) any conspicuous change in the colour or visual clarity;
  - (c) any emission of objectionable odour;
  - (d) the rendering of fresh water unsuitable for consumption by farm animals; and
  - (e) any significant adverse effects on aquatic life.
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 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 15 August 2017

For and on behalf of  
Taranaki Regional Council

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A D McLay  
**Director - Resource Management**

**Land Use Consent**  
**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: 27 June 2017

Commencement Date: 27 June 2017

**Conditions of Consent**

Consent Granted: To dam water and use a low level intake weir in the Mangatoki Stream for Inaha rural water supply scheme purposes

Expiry Date: 1 June 2035

Review Date(s): June 2023, June 2029

Site Location: Inaha Water Treatment Plant, 1056 Opunake Road, Mahoe

Grid Reference (NZTM) 1700903E-5641911N

Catchment: Waingongoro

Tributary: Mangatoki

*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 holders shall maintain the weir so that it remains sound and fit for purpose.
2. The consent holder shall repair any erosion or scour of the river bed or banks caused by the weir and take reasonable steps to stop it recurring.
3. The structure authorised by this consent shall not obstruct fish passage.
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 27 June 2017

For and on behalf of  
Taranaki Regional Council

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A D McLay  
**Director - Resource Management**

**Land Use Consent**  
**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

Consent Granted  
Date:                         15 June 2005

**Conditions of Consent**

Consent Granted:            To maintain an existing low-level weir and fish pass across  
the Mangatoki Stream in the Waingongoro catchment at or  
about GR: Q20:105-042

Expiry Date:                1 June 2023

Review Date(s):            June 2011, June 2017

Site Location:               Inaha Intake Site, Palmer Road, Mahoe, Stratford

Legal Description:           Sec 24 Blk VII Kaupokonui SD

Catchment:                 Waingongoro

Tributary:                    Mangatoki

## Consent 4102-2

### 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 3451. In the case of any contradiction between the documentation submitted in support of application 3451 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. The consent holder shall notify the Chief Executive, Taranaki Regional Council, at least 48 hours prior to any maintenance works of the structure[s] or fish pass licensed by this consent which would involve disturbance of, or deposition to, the streambed or discharges to water.
5. The consent holder, during any maintenance works, shall adopt the best practicable option to avoid or minimise the discharge of silt or other contaminants into water or onto the streambed and to avoid or minimise the disturbance of the streambed and any adverse effects on water quality.
6. The consent holder, during any maintenance, shall ensure that the area and volume of river bed disturbance shall, so far as practicable, be minimised and any areas which are disturbed shall, so far as practicable, be reinstated.
7. No maintenance work shall be conducted during the period 1 May to 31 October unless waived in writing by the Chief Executive, Taranaki Regional Council.
8. The structure[s] authorised by this consent shall be maintained to ensure the conditions of this consent are met.
9. The structure[s] authorised by this consent shall be constructed and maintained so as not to restrict the passage of native fish and trout, to the satisfaction of the Chief Executive, Taranaki Regional Council.

## Consent 4102-2

10. The structure[s] 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 Taranaki Regional Council at least 48 hours prior to the removal of the structures and reinstatement of the area
11. 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.
12. 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 2011 and/or June 2017, 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 15 June 2005

For and on behalf of  
Taranaki Regional Council

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**Director-Resource Management**





Opunake WTP (STDC)



**Water 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 July 2013

Commencement Date: 20 August 2013

**Conditions of Consent**

Consent Granted: To take and use water from the Waiaua River for Opunake town water supply purposes

Expiry Date: 1 June 2030

Review Date(s): June 2018, June 2024

Site Location: Opunake Water Supply Intake, Ihaia Road, Opunake

Legal Description: Sec 4 Blk X Opunake SD (Site of take & use)

Grid Reference (NZTM) 1678013E-5635411N

Catchment: Waiaua

*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 to section 36 of the Resource Management Act 1991.

### Special conditions

1. Except as provided for in conditions 2 and 3 below, the rate of taking shall not exceed 2200 cubic metres per day or 25.5 litres per second.
2. The taking shall occur through the 'new' intake authorised by consent 9473-1 (NZTM 1678013E-5635411N), except that taking may instead temporarily occur through the 'old' intake (NZTM 1678426E-5635847N):
  - (a) prior to the new intake and associated treatment plant being commissioned; and
  - (b) at other times if the new intake is unable to be used.
3. When taking occurs through the old intake the rate of taking may be up to 3650 cubic metres per day and 42.2 litres per second if that rate necessary to mitigate the effects of high sediment load.
4. If taking occurs through the old intake the consent holder shall advise the Chief Executive, Taranaki Regional Council as soon as practicable. Advice shall be made by emailing [worknotification@trc.govt.co.nz](mailto:worknotification@trc.govt.co.nz) with appropriate details including the dates that taking occurred.
5. Before exercising this consent the consent holder shall install, and thereafter maintain a water meter and a datalogger at the site of taking. The water meter and datalogger shall be tamper-proof and shall measure and record the rate and volume of water taken to an accuracy of  $\pm 5\%$ . Records of the date, the time and the rate and volume of water taken at intervals not exceeding 15 minutes, shall be made available to the Chief Executive, Taranaki Regional Council at all reasonable times.

*Note: Water meters and dataloggers must be installed, and regularly maintained, in accordance with manufacturer's specifications in order to ensure that they meet the required accuracy. Even with proper maintenance water meters and dataloggers have a limited lifespan.*

## Consent 0232-4

6. The consent holder shall provide the Chief Executive, Taranaki Regional Council with a document from a suitably qualified person certifying that water measuring and recording equipment required by the conditions of this consent ('the equipment'):

- (a) has been installed and/or maintained in accordance with the manufacturer's specifications; and/or
- (b) has been tested and shown to be operating to an accuracy of  $\pm 5\%$ .

The documentation shall be provided:

- (i) within 30 days of the installation of a water meter or datalogger;
  - (ii) at other times when reasonable notice is given and the Chief Executive, Taranaki Regional Council has reasonable evidence that the equipment may not be functioning as required by this consent; and
  - (iii) no less frequently than once every five years.
7. If any measuring or recording equipment breaks down, or for any reason is not operational, the consent holder shall advise the Chief Executive, Taranaki Regional Council immediately. Any repairs or maintenance to this equipment must be undertaken by a suitably qualified person.
8. The water meter and datalogger shall be accessible to Taranaki Regional Council officer's at all reasonable times for inspection and/or data retrieval.
9. The records of water taken shall:
- (a) be in a format that, in the opinion of the Chief Executive, Taranaki Regional Council, is suitable for auditing; and
  - (b) specifically record the water taken as 'zero' when no water is taken.
10. From a date no later than 1 December 2013, the measurements made in accordance with condition 5 of this consent, in a format to be advised by the Chief Executive, Taranaki Regional Council shall be transmitted to the Taranaki Regional Council's computer system to maintain a 'real time' record of the water taken.
11. At all times the consent holder shall adopt the best practicable option to prevent or minimise any actual or likely adverse effect on the environment associated with the abstraction of water, including, but not limited to, the efficient and conservative use of water.

12. The consent holder shall, on an annual basis, provide a report detailing:

- the work done to detect and minimise leaks;
- water use efficiency and conservation measures undertaken; and
- water use benchmarking data for the region and how the area supplied by this consent supplied compare.

The report(s) shall be provided to the Chief Executive, Taranaki Regional Council before 31 August each year and cover the previous 1 July to 30 June period.

## Consent 0232-4

13. This consent shall lapse on 30 September 2018, 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.
14. 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 2018 and/or June 2024, for the purposes of:
  - (a) discontinuing or amending the authorisation to take via the old intake; and/or
  - (b) 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 July 2013

For and on behalf of  
Taranaki Regional Council

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**Director-Resource Management**

**Discharge 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 July 2013

Commencement Date: 30 July 2013

**Conditions of Consent**

Consent Granted: To discharge water treatment residuals, and pond drainage water from the Opunake Water Treatment Plant into the Waiaua River

Expiry Date: 1 June 2030

Review Date(s): June 2018, June 2024

Site Location: Opunake Water Treatment Plant, Ihaia Road, Opunake

Legal Description: Sec 4 Blk X Opunake SD (Discharge source & site)

Grid Reference (NZTM) 1677645E-5635245N

Catchment: Waiaua

*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 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 discharge shall not exceed 120 cubic metres per day.
3. After allowing for reasonable mixing, within a mixing zone extending 10 metres downstream of the discharge point, the discharge shall not, either by itself or in combination with other discharges, give rise to any or all of the following effects in the receiving water:
  - a) the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials;
  - b) any conspicuous change in the colour or visual clarity;
  - c) any emission of objectionable odour;
  - d) the rendering of fresh water unsuitable for consumption by farm animals;
  - e) any significant adverse effects on aquatic life.
4. Constituents of the discharge shall meet the standards shown in the following table.

<b>Constituent</b>	<b>Standard</b>
free available chlorine	Concentration not greater than 0.1 gm <sup>-3</sup>
pH	Within the range 6.5 to 8.5
suspended solids	Concentration not greater than 50 gm <sup>-3</sup>

This condition shall apply before entry of the treated wastewater into the receiving waters at a designated sampling point approved by the Chief Executive, Taranaki Regional Council.

5. This consent shall lapse on 30 September 2018, 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 5574-2

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 2018 and/or June 2024, 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 July 2013

For and on behalf of  
Taranaki Regional Council

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**Director-Resource Management**



## Patea groundwater



**Water 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  
Chief Executive  
Private Bag 902  
Hawera 4640

Decision Date  
(Change): 29 October 2014

Commencement Date  
(Change): 29 October 2014 (Granted Date: 30 May 2012)

**Conditions of Consent**

Consent Granted: To take and use groundwater from three bores (known as Bore 1, Bore 4 and Bore 5) for Patea Township water supply purposes

Expiry Date: 01 June 2028

Review Date(s): June 2016, June 2022

Site Location: Egmont St & Taranaki Rd, Patea

Legal Description: Lot 1 DP 5899 (Bore 4)  
Lot 1 DP 411166 (Bores 1 & 5)  
Patea Dist Blk VI Carlyle SD

Grid Reference (NZTM) 1725370E - 5599180N (Bore 1)  
1725010E - 5600000N (Bore 4)  
1725360E - 5599180N (Bore 5)

Catchment: Patea  
Unnamed Catchment 12

*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 total volume of groundwater taken from the three bores combined shall not exceed 1,125 cubic metres per day.
- 2. Subject to condition 3, the rate of take from each bore shall not exceed the maximum rate shown in the table below:

Bore #	Maximum rate
1	4.7 litres per second
4	10 litres per second
5	10 litres per second

- 3. The volume taken from Bore 1 shall not exceed 300 cubic metres per day unless either Bore 4 or Bore 5 is unable to be operated because of breakdown or is shut down for essential maintenance.
- 4. Before exercising this consent the consent holder shall install, and thereafter maintain a water meter and a datalogger on each bore. The water meters and dataloggers shall be tamper-proof and shall measure and record the rate and volume of water taken to an accuracy of  $\pm 5\%$ .

*Note: Water meters and dataloggers must be installed, and regularly maintained, in accordance with manufacturer's specifications in order to ensure that they meet the required accuracy. Even with proper maintenance water meters and dataloggers have a limited lifespan.*

- 5. Within 30 days of the installation of a water meter or datalogger, and at other times when reasonable notice is given, the consent holder shall provide the Chief Executive, Taranaki Regional Council with a document from a suitably qualified person certifying that:
  - a. water measuring or recording equipment required by the conditions of this consent has been installed and/or maintained in accordance with the manufacturer's specifications; and/or
  - b. water measuring or recording equipment required by the conditions of this consent has been tested and shown to be operating to an accuracy of  $\pm 5\%$ .
- 6. If any measuring or recording equipment breaks down, or for any reason is not operational, the consent holder shall advise the Chief Executive, Taranaki Regional Council immediately. Any repairs or maintenance to this equipment must be undertaken by a suitably qualified person.
- 7. The water meter and datalogger shall be accessible to Taranaki Regional Council officer's at all reasonable times for inspection and/or data retrieval.

## Consent 3388-3.1

8. At all times the consent holder shall adopt the best practicable option to prevent or minimise any actual or likely adverse effect on the environment associated with the abstraction of groundwater, including, but not limited to, the efficient and conservative use of water.
9. The consent holder shall measure and record the water level in the Brannigan bore (GND0076, located at grid reference 1725550E-5599498N) to an accuracy of  $\pm 0.05$  metres and at intervals not exceeding 15 minutes.
10. An accessible groundwater level indicator shall be installed on the Brannigan bore which shows when groundwater levels have reached 48 metres below ground level (mbgl). Should groundwater reach this level then consultation between the owner of the Brannigan bore and the consent holder shall occur and, if the bore owner requires it, the measures in condition 11 shall be implemented.
11. That the consent holder shall immediately restrict the exercise of this consent and/or provide a suitable unchlorinated alternative water supply for the Brannigan bore owner should the exercise of this consent restrict the use of the Brannigan bore.
12. The taking shall not cause the intrusion of salt water into any freshwater aquifer.
13. 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 purposes of:
  - a. 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; and/or
  - b. to require any data collected in accordance with the conditions of this consent to be transmitted directly to the Council's computer system, in a format suitable for providing a 'real time' record over the internet.

Signed at Stratford on 29 October 2014

For and on behalf of  
Taranaki Regional Council

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A D McLay  
**Director - Resource Management**





Rahotu WTP (STDC)



**Water 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:                        15 August 2013

Commencement Date:                15 August 2013

**Conditions of Consent**

Consent Granted:                      To take and use water from the Pungaereere Stream for the  
Rahotu community water supply

Expiry Date:                            1 June 2031

Review Date(s):                        June 2019, June 2025

Site Location:                          State Highway 45, Rahotu

Legal Description:                      Lot 1 DP 15882 (Site of take & use)

Grid Reference (NZTM)                1669415E-5645831N

Catchment:                                Pungaereere

*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 rate of taking shall not exceed 180 cubic metres per day or 3 litres per second.
2. Before exercising this consent the consent holder shall install, and thereafter maintain a water meter and a datalogger at the site of taking (or a nearby site in accordance with Regulation 10 of the *Resource Management (Measurement and Reporting of Water Takes) Regulations 2010*). The water meter and datalogger shall be tamper-proof and shall measure and record the rate and volume of water taken to an accuracy of  $\pm 5\%$ . Records of the date, the time and the rate and volume of water taken at intervals not exceeding 15 minutes, shall be made available to the Chief Executive, Taranaki Regional Council at all reasonable times.

*Note: Water meters and dataloggers must be installed, and regularly maintained, in accordance with manufacturer's specifications in order to ensure that they meet the required accuracy. Even with proper maintenance water meters and dataloggers have a limited lifespan.*

3. The consent holder shall provide the Chief Executive, Taranaki Regional Council with a document from a suitably qualified person certifying that water measuring and recording equipment required by the conditions of this consent ('the equipment'):
  - (a) has been installed and/or maintained in accordance with the manufacturer's specifications; and/or
  - (b) has been tested and shown to be operating to an accuracy of  $\pm 5\%$ .

The documentation shall be provided:

- (i) within 30 days of the installation of a water meter or datalogger;
  - (ii) at other times when reasonable notice is given and the Chief Executive, Taranaki Regional Council has reasonable evidence that the equipment may not be functioning as required by this consent; and
  - (iii) no less frequently than once every five years.
4. If any measuring or recording equipment breaks down, or for any reason is not operational, the consent holder shall advise the Chief Executive, Taranaki Regional Council immediately. Any repairs or maintenance to this equipment must be undertaken by a suitably qualified person.
  5. The water meter and datalogger shall be accessible to Taranaki Regional Council officer's at all reasonable times for inspection and/or data retrieval.
  6. The records of water taken shall:
    - (a) be in a format that, in the opinion of the Chief Executive, Taranaki Regional Council, is suitable for auditing; and
    - (b) specifically record the water taken as 'zero' when no water is taken.

## Consent 3696-3

7. From a date no later than 1 February 2014, the measurements made in accordance with condition 2 of this consent, in a format to be advised by the Chief Executive, Taranaki Regional Council shall be transmitted to the Taranaki Regional Council's computer system to maintain a 'real time' record of the water taken.
8. At all times the consent holder shall adopt the best practicable option to prevent or minimise any actual or likely adverse effect on the environment associated with the abstraction of water, including, but not limited to, the efficient and conservative use of water.
9. The consent holder shall, on an annual basis, provide a report detailing:
  - the work done to detect and minimise leaks;
  - water use efficiency and conservation measures undertaken; and
  - water use benchmarking data for the region and how the area supplied by this consent supplied compare.

The report(s) shall be provided to the Chief Executive, Taranaki Regional Council before 31 August each year and cover the previous 1 July to 30 June period.

10. This consent shall lapse on 30 September 2018, 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.
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 2019 and/or June 2025, for the purposes 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 15 August 2013

For and on behalf of  
Taranaki Regional Council

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**Director-Resource Management**



**Discharge 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 11 April 2019

Commencement Date 11 April 2019

**Conditions of Consent**

Consent Granted: To discharge filter backwash water and settling tank waste from the Rahotu Water Treatment Plant into the Pungaereere Stream

Expiry Date: 1 June 2037

Review Date(s): June 2025, June 2031

Site Location: 6 Green Lane, Rahotu

Grid Reference (NZTM) 1669415E-5645831N

Catchment: Pungaereere

*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 at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any actual or likely adverse effect on the environment associated with the discharge of contaminants from the site.
2. Constituents of the discharge shall meet the standards shown in the following table.

Constituent	Standard
Suspended solids	Concentration not greater than 20 gm <sup>-3</sup>
Free available chlorine	Concentration no greater than 0.1 gm <sup>-3</sup>
pH	Within the range 6.0 to 9.0

3. After allowing for a mixing zone of 25 metres downstream of the discharge point, the discharge shall not give rise to any of the following effects in the Pungaereere Stream;
  - (a) the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials;
  - (b) any conspicuous change in the colour or visual clarity;
  - (c) any emission of objectionable odour;
  - (d) the rendering of fresh water unsuitable for consumption by farm animals; and
  - (e) any significant adverse effects on aquatic life.
4. The consent holder shall provide the results of any discharge quality self-monitoring that is undertaken to the Chief Executive, Taranaki Regional Council upon request.



## Consent 6038-2.0

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 2025 and/or June 2031 for the purposes of:
- a) 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; and/or
  - b) requiring continuous measuring and recording of the discharge; and/or
  - c) requiring any data collected in accordance with the measuring and recording of discharges to be transmitted directly to the Taranaki Regional Council's computer system, in a format suitable for providing a 'real time' record over the internet.

Signed at Stratford on 11 April 2019

For and on behalf of  
Taranaki Regional Council

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A D McLay  
**Director - Resource Management**



Wai-inu Beach water supply (STDC)



**Water 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 May 2012

Commencement  
Date: 7 May 2012

**Conditions of Consent**

Consent Granted: To take and use groundwater for Waiinu Beach water  
supply purposes at or about (NZTM) 1748362E-5586586N

Expiry Date: 1 June 2028

Review Date(s): June 2016, June 2022

Site Location: Nukumaru Domain Reserve, Waiinu Road, Waiinu Beach

Legal Description: Pt Sec 150 Waitotara Dist Blk XIV Wairoa SD  
(Site of take & use)

Catchment: Waitotara

*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 volume of water taken shall not exceed 4 litres per second (346 m<sup>3</sup>/day).
2. Before exercising this consent the consent holder shall install, and thereafter maintain a water meter at the site of taking. The water meter shall be tamper-proof and shall measure and record the volume of water taken to an accuracy of  $\pm 5\%$ .

Note: Water meters must be installed, and regularly maintained, in accordance with manufacturer's specifications in order to ensure that they meet the required accuracy. Even with proper maintenance water meters have a limited lifespan.

3. The consent holder shall provide the Chief Executive, Taranaki Regional Council with a document from a suitably qualified person certifying that water measuring equipment required by the conditions of this consent ('the equipment'):
  - (a) has been installed and/or maintained in accordance with the manufacturer's specifications; and/or
  - (b) has been tested and shown to be operating to an accuracy of  $\pm 5\%$ .

The documentation shall be provided:

- (i) within 30 days of the installation of a water meter;
  - (ii) at other times when reasonable notice is given and the Chief Executive, Taranaki Regional Council has reasonable evidence that the equipment may not be functioning as required by this consent; and
  - (iii) no less frequently than once every five years.
4. If any measuring or recording equipment breaks down, or for any reason is not operational, the consent holder shall advise the Chief Executive, Taranaki Regional Council immediately. Any repairs or maintenance to this equipment must be undertaken by a suitably qualified person.
  5. The water meter shall be accessible to Taranaki Regional Council officers at all reasonable times for inspection and/or data retrieval.
  6. The consent holder shall maintain a record of the water taken by recording the meter reading and the date of the reading at monthly intervals. This record shall be provided to the Chief Executive, Taranaki Regional Council, no later than 31 July of each year, or earlier upon request.

## Consent 3770-3

7. At all times the consent holder shall adopt the best practicable option to prevent or minimise any actual or likely adverse effect on the environment associated with the abstraction of water, including, but not limited to, the efficient and conservative use of water.
8. This consent shall lapse on 30 June 2017, 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.
9. 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 2017 and/or June 2023, for the purposes of:
  - (a) 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; and/or
  - (b) to require any data collected in accordance with the conditions of this consent to be transmitted directly to the Council's computer system, in a format suitable for providing a 'real time' record over the internet.

Signed at Stratford on 7 May 2012

For and on behalf of  
Taranaki Regional Council

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**Director-Resource Management**





## Waimate WTP (STDC)



**Discharge 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 (Change): 15 May 2013

Commencement Date (Change): 15 May 2013 (Granted: 12 June 2006)

**Conditions of Consent**

Consent Granted: To discharge treated washwater from the Waimate Water Supply Scheme into an unnamed tributary of Kellys Creek

Expiry Date: 1 June 2023

Review Date(s): June 2017

Site Location: Waimate Water Treatment Plant, Rowan Road, Manaia

Legal Description: Pt Sec 79 Blk X Kaupokonui SD (Discharge source & site)

Grid Reference (NZTM) 1695477E-5636870N

Catchment: Kaupokonui

Tributary: Mangawhero  
Kellys Creek

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

### 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 applications 3445 and 7390. In the case of any contradiction between the documentation submitted in support of applications 3445 and 7390 and the conditions of this consent, the conditions of this consent shall prevail.
3. The discharge shall not exceed 750 m<sup>3</sup> per day, except in the following situations:
  - a) During plant start-up where the discharge shall not exceed 7,500 m<sup>3</sup> per day for a one-off period of up to 10 days;
  - b) During clarifier drain-down where the discharge shall not exceed 1500 m<sup>3</sup> per day, twice annually, for a maximum 24 hour period; and
  - c) During sludge pond dewatering where the discharge shall not exceed 1000 m<sup>3</sup> per day, once annually, for up to 14 days.
4. The consent holder shall install and continually maintain an erosion protection structure generally in accordance with the plan prepared by CH2M Beca - Drawing No. W-DKC-0012, to ensure that the exercise of this consent does not cause any erosion or scour of the streambed.
5. The discharge quality shall not exceed the following limits at all times:

<b>Component</b>	<b>Concentration</b>
free available chlorine	<0.1g/m <sup>3</sup>
suspended solids	20 g/m <sup>3</sup>
pH	6.5-8.5
6. The consent holder shall properly and efficiently maintain and operate the settling ponds so as to meet the conditions of this consent.

## Consent 0129-3

7. After allowing for reasonable mixing, being a mixing zone extending seven times width of the unnamed tributary of Kellys Creek at the point of discharge, any discharge of contaminants shall not give rise to any of the following effects in the unnamed tributary of Kellys Creek:
  - a) any conspicuous change in the colour or visual clarity;
  - b) any emission of objectionable odour;
  - c) the rendering of fresh water unsuitable for consumption by farm animals;
  - d) any significant adverse effects on aquatic life.
8. 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.
9. 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 2011 and/or June 2017, 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 15 May 2013

For and on behalf of  
Taranaki Regional Council

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**Director-Resource Management**



**Water 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 2011

Commencement  
Date: 7 June 2011

**Conditions of Consent**

Consent Granted: To take water from the Mangawheroiti Stream for the  
Waimate West water supply at or about (NZTM)  
1694422E-5637449N

Expiry Date: 1 June 2023

Review Date(s): June 2018

Site Location: Rowan Road, Kaponga

Legal Description: Pt Sec 79 Blk X Kaupokonui SD

Catchment: Kaupokonui

Tributary: Mangawhero  
Mangawheroiti

*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 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 rate of taking shall not exceed 121 litres per second [including any water that is taken from the Mangawhero Stream, in accordance with consent 0635, and discharged to the Mangawheroiti Stream].
2. No water shall be taken pursuant to this consent unless water is being concurrently taken from the Otakeho Stream at 85 litres per second. If, for a temporary period, the Otakeho Stream intake and diversion can not supply 85 litres per second, for example during maintenance, the consent holder shall immediately advise the Chief Executive, Taranaki Regional Council and this condition shall not apply.
3. Before exercising this consent the consent holder shall install, and thereafter maintain a water meter and datalogger. The water meter and datalogger shall be tamper-proof and shall measure and record the rate and volume of water taken to an accuracy of  $\pm 5\%$ . Records of the date, the time and the rate and volume of water taken at intervals not exceeding 15 minutes.

*Note: Water meters and dataloggers must be installed, and regularly maintained, in accordance with manufacturer's specifications in order to ensure that they meet the required accuracy. Even with proper maintenance water meters and dataloggers have a limited lifespan.*

4. The consent holder shall provide the Chief Executive, Taranaki Regional Council with a document from a suitably qualified person certifying that water measuring and recording equipment required by the conditions of this consent ['the equipment']:
  - (a) has been installed and/or maintained in accordance with the manufacturer's specifications; and/or
  - (b) has been tested and shown to be operating to an accuracy of  $\pm 5\%$ .

The documentation shall be provided:

- (i) within 30 days of the installation of a water meter or datalogger;
  - (ii) at other times when reasonable notice is given and the Chief Executive, Taranaki Regional Council has reasonable evidence that the equipment may not be functioning as required by this consent; and
  - (iii) no less frequently than once every five years.
5. If any measuring or recording equipment breaks down, or for any reason is not operational, the consent holder shall advise the Chief Executive, Taranaki Regional Council immediately. Any repairs or maintenance to this equipment must be undertaken by a suitably qualified person.
6. The water meter and datalogger shall be accessible to Taranaki Regional Council officers at all reasonable times for inspection and/or data retrieval.



## Consent 0634-3

7. The records of water taken shall:
  - (a) be in a format that, in the opinion of the Chief Executive, Taranaki Regional Council, is suitable for auditing; and
  - (b) specifically record the water taken as 'zero' when no water is taken.
8. The taking of water authorised by this consent shall be managed to ensure that the flow in the Mangawheroiti Stream, immediately downstream of the intake, is not less than 32 litres per second.
9. When the flow in the Mangawheroiti Stream is less than 500 litres per second the consent holder shall measure and record the flow of the Mangawheroiti Stream that passes downstream the intake to an accuracy of  $\pm 10\%$  at intervals not exceeding 30 minutes.
10. From a date no later than 30 June 2012, the measurements made in accordance with conditions 3 and 9 of this consent, in a format to be advised by the Chief Executive, Taranaki Regional Council, shall be transmitted to the Taranaki Regional Council's computer system to maintain a 'real time' record of the water taken and the flow past the intake, with a delay of no more than 2 hours.
11. The consent holder shall ensure that a staff gauge is installed and maintained to effectively display the water level at the weir to an accuracy of 0.005 m at all times when the flow is less than 500 litres per second.
12. If necessary to comply with condition 9, the consent holder shall ensure that sufficient stream flow measurements are undertaken to maintain a 'rating curve' that accurately translates the water level to stream flow over the weir.

*Note: Work required by special condition 12 may be undertaken by the Taranaki Regional Council and all reasonable costs recovered from the consent holder through the annual compliance monitoring programme that is in place for the activity.*
13. At all times the consent holder shall adopt the best practicable option to prevent or minimise any actual or likely adverse effect on the environment associated with the abstraction of water, including, but not limited to, the efficient and conservative use of water.
14. The consent holder shall, on an annual basis, provide a report detailing:
  - the work done to detect and minimise leaks within each of the areas supplied;
  - water use efficiency and conservation measures undertaken and planned for all users of the Waimate Water Supply Scheme area; and
  - water use benchmarking data for the region compared to water use for the Waimate Water Supply Scheme.

The report[s] shall be provided to the Chief Executive, Taranaki Regional Council before 1 September each year and cover the previous 1 July to 30 June period. The first report shall be provided by 1 September 2011.

Consent 0634-3

15. The consent holder shall make five annual payments of \$30,600 [GST exclusive] to the Taranaki Regional Council as a financial contribution in order to remedy or mitigate adverse effects on the environment. These payments shall be made no later than 1 September each year from 2011 to 2015.
16. 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 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 7 June 2011

For and on behalf of  
Taranaki Regional Council

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**Director-Resource Management**

**Water 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 2011

Commencement  
Date: 7 June 2011

**Conditions of Consent**

Consent Granted: To take water from the Mangawhero Stream for the purpose of adding to the flow of the Mangawheroiti Stream and providing water for the Waimate West water supply at or about (NZTM) 1694040E-5640090N

Expiry Date: 1 June 2023

Review Date(s): June 2018

Site Location: Mangawhero Road, Kaponga

Legal Description: Sec 11 Blk VI Kaupokonui SD

Catchment: Kaupokonui

Tributary: Mangawhero

*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 [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 rate of taking shall not exceed 70 litres per second.
2. No water shall be taken pursuant to this consent unless water is concurrently being taken from the Otakeho and Mangawheroiti Streams, at 85 litres per second and 121 litres per second, respectively. If, for a temporary period, the Otakeho and Mangawheroiti Streams can not supply 85 litres per second and 121 litres per second respectively, for example during maintenance, the consent holder shall immediately advise the Chief Executive, Taranaki Regional Council and this condition shall not apply.
3. Before exercising this consent the consent holder shall install, and thereafter maintain a water meter and datalogger. The water meter and datalogger shall be tamper-proof and shall measure and record the rate and volume of water taken to an accuracy of  $\pm 5\%$ . Records of the date, the time and the rate and volume of water taken at intervals not exceeding 15 minutes.

*Note: Water meters and dataloggers must be installed, and regularly maintained, in accordance with manufacturer's specifications in order to ensure that they meet the required accuracy. Even with proper maintenance water meters and dataloggers have a limited lifespan.*

4. The consent holder shall provide the Chief Executive, Taranaki Regional Council with a document from a suitably qualified person certifying that water measuring and recording equipment required by the conditions of this consent ['the equipment']:
  - (a) has been installed and/or maintained in accordance with the manufacturer's specifications; and/or
  - (b) has been tested and shown to be operating to an accuracy of  $\pm 5\%$ .

The documentation shall be provided:

- (i) within 30 days of the installation of a water meter or datalogger;
  - (ii) at other times when reasonable notice is given and the Chief Executive, Taranaki Regional Council has reasonable evidence that the equipment may not be functioning as required by this consent; and
  - (iii) no less frequently than once every five years.
5. If any measuring or recording equipment breaks down, or for any reason is not operational, the consent holder shall advise the Chief Executive, Taranaki Regional Council immediately. Any repairs or maintenance to this equipment must be undertaken by a suitably qualified person.

## Consent 0635-3

6. The water meter and datalogger shall be accessible to Taranaki Regional Council officers at all reasonable times for inspection and/or data retrieval.
7. The records of water taken shall:
  - (a) be in a format that, in the opinion of the Chief Executive, Taranaki Regional Council, is suitable for auditing; and
  - (b) specifically record the water taken as 'zero' when no water is taken.
8. From a date no later than 30 June 2012, the measurements made in accordance with condition 3 of this consent, in a format to be advised by the Chief Executive, Taranaki Regional Council, shall be transmitted to the Taranaki Regional Council's computer system to maintain a 'real time' record of the water taken, with a delay of no more than 2 hours.
9. At all times the consent holder shall adopt the best practicable option to prevent or minimise any actual or likely adverse effect on the environment associated with the abstraction of water, including, but not limited to, the efficient and conservative use of water.
10. 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 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 7 June 2011

For and on behalf of  
Taranaki Regional Council

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**Director-Resource Management**



**Water 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  
Chief Executive  
Private Bag 902  
Hawera 4640

Decision Date: 27 February 2017

Commencement Date: 27 February 2017

**Conditions of Consent**

Consent Granted: To take and use groundwater for Waimate West water supply purposes

Expiry Date: 1 June 2035

Review Date(s): June 2020 and every three years thereafter

Site Location: 791 Rowan Road, Manaia

Grid Reference (NZTM) 1695555E-5636905N

Catchment: Kaupokonui

Tributary: Mangawhero  
Kellys Creek

*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 volume of water taken in any 24 hour period ending at midnight shall not exceed 432 m<sup>3</sup>.
2. All bores shall be easily identifiable by permanent labels, which may be welded or engraved on the casing, or on the equivalent fixed part of the well construction or associated building. The numbering on the label shall be the bore number assigned by the Taranaki Regional Council (GND2511).
3. The bore shall include a conduit (or 'dip tube') no less than 30 mm in diameter that provides unimpeded access for measuring the water level within the bore. The conduit shall have an easily removable cap that prevents contaminants entering it.
4. The consent holder shall install, and thereafter maintain a water meter and a datalogger at the site of taking (or a nearby site in accordance with Regulation 10 of the Resource Management (Measurement and Reporting of Water Takes) Regulations 2010). The water meter and datalogger shall be tamper-proof and shall measure and record the rate and volume of water taken to an accuracy of  $\pm 5\%$  at intervals not exceeding 15 minutes.

*Note: Water meters must be installed, and regularly maintained, in accordance with manufacturer's specifications in order to ensure that they meet the required accuracy. Even with proper maintenance water meters have a limited lifespan.*

5. The records of water taken shall:
  - a) be in a format that, in the opinion of the Chief Executive, Taranaki Regional Council, is suitable for auditing;
  - b) specifically record the water taken as 'zero' when no water is taken; and
  - c) be transmitted to the Taranaki Regional Council's computer system within 2 hours of being recorded.
6. The consent holder shall provide the Chief Executive, Taranaki Regional Council with a document from a suitably qualified person certifying that water measuring equipment required by the conditions of this consent ('the equipment'):
  - a) has been installed and/or maintained in accordance with the manufacturer's specifications; and/or
  - b) has been tested and shown to be operating to an accuracy of  $\pm 5\%$ .the documentation shall be provided:
  - i) within 30 days of the installation of a water meter;
  - ii) at other times when reasonable notice is given and the Chief Executive, Taranaki Regional Council has reasonable evidence that the equipment may not be functioning as required by this consent; and
  - iii) no less frequently than once every five years.



## Consent 10370-1.0

7. If any measuring or recording equipment breaks down, or for any reason is not operational, the consent holder shall advise the Chief Executive, Taranaki Regional Council immediately. Any repairs or maintenance to this equipment must be undertaken by a suitably qualified person.
8. The water meters and data loggers shall be accessible to Taranaki Regional Council officers at all reasonable times for inspection and/or data retrieval.
9. At all times the consent holder shall take all practicable steps to take and use water efficiently and generally prevent or minimise any adverse effects on the environment including as minimum, by ensuring that the minimum amount of water necessary for the purpose is taken.
10. The consent holder shall ensure that the bores and associated pipework are designed and configured in such a way that no water from any source can re-enter any bore.
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 2020 and every three years thereafter, 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 27 February 2017

For and on behalf of  
Taranaki Regional Council

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A D McLay  
**Director - Resource Management**



**Land Use Consent**  
**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: 3 October 2018

Commencement Date: 25 October 2018

**Conditions of Consent**

Consent Granted: To take and use water from the Otakeho Stream for the  
Pope and Waimate West water supply schemes

Expiry Date: 1 June 2023

Review Date(s): June 2019

Site Location: 1055 Mangawhero Road, Kaponga

Grid Reference (NZTM) 1691940E-5639453N

Catchment: Otakeho

*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 rate of taking shall not exceed 85 litres per second.
2. Before exercising this consent the consent holder shall install, and thereafter maintain a water meter and a datalogger at the site of taking (or a nearby site in accordance with Regulation 10 of the Resource Management (Measurement and Reporting of Water Takes) Regulations 2010. The water meter and datalogger shall be tamper-proof and shall measure and record the rate and volume of water taken to an accuracy of  $\pm 5\%$  at intervals not exceeding 15 minutes.
3. The consent holder shall provide the Chief Executive, Taranaki Regional Council with a document from a suitably qualified person certifying that water measuring and recording equipment required by the conditions of this consent ('the equipment'):
  - (a) has been installed and/or maintained in accordance with the manufacturer's specifications; and/or
  - (b) has been tested and shown to be operating to an accuracy of  $\pm 5\%$ .

The documentation shall be provided:

- (i) within 30 days of the installation of a water meter or datalogger;
  - (ii) at other times when reasonable notice is given and the Chief Executive, Taranaki Regional Council has reasonable evidence that the equipment may not be functioning as required by this consent; and
  - (iii) no less frequently than once every five years.
4. If any measuring or recording equipment breaks down, or for any reason is not operational, the consent holder shall advise the Chief Executive, Taranaki Regional Council immediately. Any repairs or maintenance to this equipment must be undertaken by a suitably qualified person.
5. The water meter and datalogger shall be accessible to Taranaki Regional Council officers at all reasonable times for inspection and/or data retrieval.
6. The records of water taken shall:
  - (a) be in a format that, in the opinion of the Chief Executive, Taranaki Regional Council, is suitable for auditing;
  - (b) specifically record the water taken as 'zero' when no water is taken;
  - (c) be transmitted to the Taranaki Regional Council's computer system within 2 hours of being recorded.
7. At all times the consent holder shall adopt the best practicable option to prevent or minimise any actual or likely adverse effect on the environment associated with the abstraction of water, including, but not limited to, the efficient and conservative use of water.

## Consent 3911-3.0

8. The consent holder shall, on an annual basis, provide a report detailing:
- (a) the work done to detect and minimise leaks within each of the areas supplied;
  - (b) water use efficiency and conservation measures undertaken and planned for all users of the Waimate Water Supply Scheme area; and
  - (c) water use benchmarking data for the region compared to water use for the Waimate Water Supply Scheme.

The report(s) shall be provided to the Chief Executive, Taranaki Regional Council before 1 September each year and cover the previous 1 July to 30 June period. The first report shall be provided by 1 September 2019.

9. The consent holder shall make five annual payments of \$8,000 (GST exclusive) to the Taranaki Regional Council as a financial contribution for the purpose of funding environmental enhancement projects. The environmental enhancement projects are, as first priority, to be in the Otakeho and Mangawhero Stream catchments, and may include:
- (a) fencing, planting, creation and enhancement of wetlands; and
  - (b) riparian planting, with first and second order streams as a priority.

The first payment shall be made within 60 days of this consent commencing and subsequent payments no later than 1 September each year.

*Advice Note: The Taranaki Regional Council will provide the consent holder with an invoice for the financial contribution clearly stating the purpose of the payment.*

10. 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 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 3 October 2018

For and on behalf of  
Taranaki Regional Council

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A D McLay  
**Director - Resource Management**



**Discharge 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: 9 June 2006

**Conditions of Consent**

Consent Granted: To discharge treated backwash water from the Pope Rural Water Supply Treatment Plant into an unnamed tributary of the Mangawhero Stream in the Kaupokonui catchment at or about GR: P20:032-003

Expiry Date: 1 June 2023

Review Date(s): June 2011, June 2017

Site Location: Upper Mangawhero Road, Kaponga

Legal Description: Pt Lot 2 DP 7928 Blk VI Kaupokonui SD

Catchment: Kaupokonui

Tributary: Mangawhero 2

### 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 3452. In the case of any contradiction between the documentation submitted in support of application 3452 and the conditions of this consent, the conditions of this consent shall prevail.
3. The discharge shall not exceed 6 cubic metres per day, at a rate not exceeding 5 litres per second.
4. The discharge quality shall not exceed the following limits at all times:

<b>Component</b>	<b>Concentration</b>
free available chlorine	<0.1g/m <sup>3</sup>
suspended solids	20 g/m <sup>3</sup>
pH	6.5-8.5

5. The consent holder shall properly and efficiently maintain and operate the settling pond so as to meet the conditions of this consent.
6. After allowing for reasonable mixing, within a mixing zone extending 20 metres below the discharge point, the discharge shall not give rise to any of the following effects in the unnamed tributary of the Mangawhero Stream:
  - (a) the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials;
  - (b) any conspicuous change in the colour or visual clarity;
  - (c) any emission of objectionable odour;
  - (d) the rendering of fresh water unsuitable for consumption by farm animals;
  - (e) any significant adverse effects on aquatic life, habitats, or ecology.



Consent 4446-2

7. 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.
8. 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 2011 and/or June 2017, 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 9 June 2006

For and on behalf of  
Taranaki Regional Council

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**Director-Resource Management**



**Land Use Consent**  
**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 June 2017

Commencement Date: 29 June 2017

**Conditions of Consent**

Consent Granted: To dam water and use a weir and water intake structure on the bed of the Otakeho Stream

Expiry Date: 1 June 2035

Review Date(s): June 2023, June 2029

Site Location: 1055 Mangawhero Road, Riverlea

Grid Reference (NZTM) 1691982E-5639444N

Catchment: Otakeho

*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 weir so that it remains sound and fit for purpose.
2. The consent holder shall repair any erosion or scour of the river bed or banks caused by the weir and take reasonable steps to stop it recurring.
3. The structure authorised by this consent shall not restrict fish passage.
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 29 June 2017

For and on behalf of  
Taranaki Regional Council

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A D McLay  
**Director - Resource Management**

**Land Use Consent**  
**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  
Chief Executive  
Private Bag 902  
Hawera 4640

Decision Date: 08 August 2017

Commencement Date: 08 August 2017

**Conditions of Consent**

Consent Granted: To dam water and use a water intake structure on the bed of the Mangawhero-iti Stream for water abstraction purposes

Expiry Date: 01 June 2035

Review Date(s): June 2023, June 2029

Site Location: Waimate West Water Treatment Plant, 817 Rowan Road,  
Riverlea

Grid Reference (NZTM) 1694420E-5637449N

Catchment: Kaupokonui

Tributary Mangawhero  
Mangawhero-iti

*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 weir so that it remains sound and fit for purpose.
2. The consent holder shall repair any erosion or scour of the river bed or banks caused by the weir and take reasonable steps to stop it recurring.
3. The structure authorised by this consent shall not obstruct fish passage.
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 08 August 2017

For and on behalf of  
Taranaki Regional Council



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A D McLay  
**Director - Resource Management**

**Land Use Consent**  
**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  
Chief Executive  
Private Bag 902  
Hawera 4640

Decision Date: 08 August 2017

Commencement Date: 08 August 2017

**Conditions of Consent**

Consent Granted: To dam water and use a weir, a water intake structure and a swing bridge on/over the bed of the Mangawhero Stream for water abstraction

Expiry Date: 01 June 2035

Review Date(s): June 2023, June 2029

Site Location: Waimate West Water Treatment Plant, 1100 Mangawhero Road, Riverlea

Grid Reference (NZTM) 1694040E-5639846N

Catchment: Kaupokonui

Tributary: Mangawhero

*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 weir so that it remains sound and fit for purpose.
2. The consent holder shall repair any erosion or scour of the river bed or banks caused by the weir and take reasonable steps to stop it recurring.
3. The structures authorised by this consent shall not obstruct fish passage.
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 08 August 2017

For and on behalf of  
Taranaki Regional Council



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A D McLay  
**Director - Resource Management**



Waverley g/water supply (STDC)



**Water 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 (Change): 23 January 2013

Commencement Date (Change): 23 January 2013 (Granted: 23 September 2010)

**Conditions of Consent**

Consent Granted: To take and use groundwater from the "Fookes Street" bore (GND0244) at or about (NZTM) 1739130E-5597816N, the "Chester Street" bore (GND0059) at or about (NZTM) 1740040E-5597843N and the "Swinbourne Street" bore (GND2242) ) at or about (NZTM) 1739058E-5597248N for municipal water supply purposes at Waverley

Expiry Date: 1 June 2022

Review Date(s): June 2016

Site Location: Fookes Street, Chester Street & Swinbourne Street, Waverley

Legal Description: Pt Sec 31 SO 34857 Waverley Tn Belt (Fookes Street)  
Sec 28 Waverley Tn Belt (Chester Street)  
Pt Sec 32 SO 34857 Waverley Tn Belt (Swinbourne Street)(Site of takes)

Catchment: Whenuakura  
Wairoa

*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 combined total volume of water taken from the 'Fookes Street' bore (GND0244), the 'Chester Street' bore (GND0059) and the 'Swinbourne Street' bore (GND2242) shall not exceed 900 cubic metres per day and the combined rate shall not exceed 14.2 litres per second.
2. The daily maximum take volume and abstraction rate from each individual bore shall not exceed the limits specified below:

Production bore ID	Maximum daily abstraction volume (cubic metres per day)	Maximum daily abstraction rate (litres per second)
Fookes Street (GND0244)	500	7.2
Chester Street (GND0059)	400	7.0
Swinbourne Street (GND2242)	890	10.3

3. The bores shall be easily identifiable by permanent labels, which may be welded or engraved on the casing, or on the equivalent fixed part of the well construction or associated building. The label shall show the bore number assigned by the Taranaki Regional Council (GND0244 at Fookes Street, GND0059 at Chester Street and GND2242 at Swinbourne Street).
4. Prior to the exercise this consent the consent holder shall install, and thereafter maintain a water meter and a datalogger on each bore. The water meters and dataloggers shall be tamper-proof and shall measure and record the rate and volume of water taken to an accuracy of  $\pm 5\%$ .

Note: Water meters and dataloggers must be installed, and regularly maintained, in accordance with manufacturer's specifications in order to ensure that they meet the required accuracy. Even with proper maintenance water meters and dataloggers have a limited life-span.

5. Prior to the commencement of abstraction from the Swinbourne Street production bore, the consent holder shall in each bore, install and subsequently maintain equipment approved by the Taranaki Regional Council to measure and record the water level within each bore.
6. The consent shall, for each bore, maintain an abstraction record, including the date and time of abstraction, instantaneous rate and cumulative abstraction volume. The consent holder shall also maintain a record of water level in each bore, at intervals not exceeding 15 minutes, and include the date and time of measurement. All records shall be made available to the Chief Executive, Taranaki Regional Council in an approved format, by 31 July each year or earlier upon request.

## Consent 3313-3

7. Within 30 days of the installation of a water meter or datalogger, and upon request, the consent holder shall provide the Chief Executive, Taranaki Regional Council with a document from a suitably qualified person certifying that:
  - a. water measuring or recording equipment required by the conditions of this consent has been installed and/or maintained in accordance with the manufacturer's specifications; and
  - b. water measuring or recording equipment required by the conditions of this consent has been tested and shown to be operating to an accuracy of  $\pm 5\%$ .
8. If any measuring or recording equipment breaks down, or for any reason is not operational, the consent holder shall advise the Chief Executive, Taranaki Regional Council immediately. Any repairs or maintenance to this equipment must be undertaken by a suitably qualified person.
9. At all times the consent holder shall adopt the best practicable option to prevent or minimise any actual or likely adverse effect on the environment associated with the abstraction of groundwater, including, but not limited to, the efficient and conservative use of water.
10. The taking shall not cause the intrusion of salt water into any freshwater aquifer.
11. The consent holder shall ensure that there is access into the well that enables the measurement of static and pumping water levels.

Note: Compliance with this condition can be achieved with the existing wellhead configuration by allowing access to the well via the water level monitoring transducer installation tubing.

12. 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 for the purposes of:
  - (a) 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; and/or
  - (b) to require any data collected in accordance with the conditions of this consent to be transmitted directly to the Council's computer system, in a format suitable for providing a 'real time' record over the internet.

Signed at Stratford on 23 January 2013

For and on behalf of  
Taranaki Regional Council

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**Director-Resource Management**



## Waverley Beach water supply (STDC)





**Water 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:                        1 May 2013

Commencement Date:                1 May 2013

**Conditions of Consent**

Consent Granted:                      To take and use water groundwater for Waverley Beach  
water supply purposes

Expiry Date:                            1 June 2028

Review Date(s):                        June 2016, June 2022

Site Location:                          Waipipi Road, Waverley

Legal Description:                      Pt Run 2 & 3 Blk XI Wairoa SD (Site of take)

Grid Reference (NZTM)                1739933E-5589679N

Catchment:                                Unnamed Stream 3

*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 total volume of water taken from the 'bore 2' (GND2224) shall not exceed 80 cubic metres per day at a rate not exceeding 1.5 litres per second.
2. The taking shall not cause the intrusion of saltwater into any freshwater aquifer.
3. The bores within the supply network shall be easily identifiable by permanent labels, which may be welded or engraved on the casing, or on the equivalent fixed part of the well construction or associated building. The numbering on the label shall be the bore number assigned by Taranaki Regional Council as follows:

Bore 1: GND1061

Bore 2: GND2224

4. Prior to exercising this consent the consent holder shall install, and thereafter maintain a water meter and a datalogger at the site of taking. The water meter and datalogger shall be tamper-proof and shall measure and record the rate and volume of water taken to an accuracy of  $\pm 5\%$ .

Note: Water meters and dataloggers must be installed, and regularly maintained, in accordance with manufacturer's specifications in order to ensure that they meet the required accuracy. Even with proper maintenance water meters and dataloggers have a limited lifespan.

5. Within 30 days of the installation of a water meter or datalogger, and at other times when reasonable notice is given, the consent holder shall provide the Chief Executive, Taranaki Regional Council with a document from a suitably qualified person certifying that:
  - a. water measuring or recording equipment required by the conditions of this consent has been installed and/or maintained in accordance with the manufacturer's specifications; and/or
  - b. water measuring or recording equipment required by the conditions of this consent has been tested and shown to be operating to an accuracy of  $\pm 5\%$ .
6. Prior to exercising this consent the consent holder shall install water level monitoring devices in each bore (GND1061 and GND2224). The water level monitoring devices shall be accurate to  $\pm 0.05$  metres and record levels at intervals not exceeding 15 minutes.

## Consent 9563-1

7. Within 30 days of the installation of the water level monitoring devices, and at other times when reasonable notice is given, the consent holder shall provide the Chief Executive, Taranaki Regional Council with a document from a suitably qualified person certifying that:
  - a. water level monitoring devices required by the conditions of this consent have been installed and/or maintained in accordance with the manufacturer's specifications; and/or
  - b. water level monitoring devices required by the conditions of this consent have been tested and shown to be operating to an accuracy of  $\pm 0.05$  metres.
8. The water meter and datalogger shall be accessible to Taranaki Regional Council officer's at all reasonable times for inspection and/or data retrieval.
9. If any measuring or recording equipment breaks down, or for any reason is not operational, the consent holder shall advise the Chief Executive, Taranaki Regional Council immediately. Any repairs or maintenance to this equipment must be undertaken by a suitably qualified person.
10. The consent shall maintain an abstraction record, including the date and time of abstraction, instantaneous rate and cumulative abstraction volume. The consent holder shall also maintain a record of water level in each bore, at intervals not exceeding 15 minutes, and include the date and time of measurement. All records shall be made available to the Chief Executive, Taranaki Regional Council in an approved format, by 31 July each year or earlier upon request.
11. At all times the consent holder shall adopt the best practicable option (BPO) to prevent or minimise any actual or likely adverse effect on the environment associated with the abstraction of groundwater, including, but not limited to, the efficient and conservative use of water.
12. This consent shall lapse on 30 June 2018, 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.
13. 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 1 May 2013

For and on behalf of  
Taranaki Regional Council

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**Chief Executive**



## Appendix II

Categories used to evaluate environmental and administrative performance

## Categories used to evaluate environmental and administrative performance

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 Company'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.