

South Taranaki Water Supplies

Monitoring Programme

Annual Report

2019-2020

Technical Report 2020-101



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Taranaki Regional Council
Private Bag 713
Stratford

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Executive summary

The South Taranaki District Council (STDC) operates a total of 11 water treatment plants (WTP's) throughout the district. STDC holds 33 resource consents which include 291 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.

This report for the period July 2019 to June 2020 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 an overall high level of environmental performance.

During the 2019-2020 monitoring period the Council's monitoring programme included ten inspections, the collection of six water samples for physicochemical analysis, three biomonitoring surveys of receiving water, and two fish surveys. Abstraction, stream flow and discharge data, provided by the consent holder, was analysed and reviewed.

Chemical sampling of discharges and receiving waters and macroinvertebrate surveys indicated that the water supply schemes were not causing any adverse environmental effects. Fish surveys were inconclusive as to whether weirs were presenting a barrier to fish passage.

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

For reference, in the 2019-2020 year, consent holders were found to achieve a high level of environmental performance and compliance for 81% of the consents monitored through the Taranaki tailored monitoring programmes, while for another 17% of the consents, a good level of environmental performance and compliance was achieved.

In terms of overall environmental and compliance performance by the consent holder over the last several years, this report shows that the consent holder's performance remains at a good or high level.

This report includes recommendations for the 2020-2021 year.

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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 2019 to June 2020 by the Taranaki Regional Council (the Council) on the monitoring programme associated with resource consents for 11 water treatment plants (WTP's) in the South Taranaki District.

The report includes the results and findings of the monitoring programme implemented by the Council in respect of the consents held by South Taranaki District Council (STDC), that relate to water supply schemes and WTP's that they operate.

One of the intents of the *Resource Management Act 1991* (RMA) is that environmental management should be integrated across all media, so that a consent holder's use of water, air, and land should be considered from a single comprehensive environmental perspective. Accordingly, the Council generally implements integrated environmental monitoring programmes and reports the results of the programmes jointly. This report discusses the environmental effects of the Company's use of water, land and air, and is the 22nd combined annual report by the Council for the water supply industry in the South Taranaki District.

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 RMA and the Council's obligations;
- the Council's approach to monitoring sites through annual programmes;
- the resource consents held 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 2020-2021 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' inasmuch as is appropriate for each activity. Monitoring programmes are not only based on existing permit conditions, but also on the obligations of the RMA to assess the effects of the exercise of consents. In accordance with Section 35 of the RMA, the Council undertakes compliance monitoring for consents and rules in regional plans, and maintains an overview of the performance of resource users and consent holders. Compliance monitoring, including both activity and impact monitoring, enables the Council to continually re-evaluate its approach and that of consent holders to resource management and, ultimately, through the refinement of methods and considered responsible resource utilisation, to move closer to achieving sustainable development of the region's resources.

1.1.4 Evaluation of environmental and administrative performance

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

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

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

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

Environmental Performance

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

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

For example:

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

Improvement required: Likely or actual adverse effects of activities on the receiving environment were more than minor, but not substantial. There were some issues noted during monitoring, from self reports, or during investigations of incidents reported to the Council by a third party. Cumulative

adverse effects of a persistent minor non-compliant activity could elevate a minor issue to this level. Abatement notices and infringement notices may have been issued in respect of effects.

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

Administrative performance

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

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

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

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

For reference, in the 2019-2020 year, consent holders were found to achieve a high level of environmental performance and compliance for 81% of the consents monitored through the Taranaki tailored monitoring programmes, while for another 17% of the consents, a good level of environmental performance and compliance was achieved.¹

1.2 Resource consents

STDC holds various resource consents including water abstraction permits, discharge permits and land use consents for various water supply plants and structures they operate. These resource consents 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.

¹ The Council has used these compliance grading criteria for more than 15 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 consent and processes

Water Supply Scheme	Consent No	Description	Expiry Date	Next Review Date	Process
Eltham WTP	0989-3	To discharge reservoir contents from the Eltham Water Supply Reservoir onto land adjacent to the Waingongoro River	1 June 2029	June 2023	Raw water is abstracted from a pool (no weir) and piped to the treatment plant. Polyaluminium chloride (PAC) is added and the water passed 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
	1811-4.0	To discharge filter backwash from the Eltham WTP via a settling pond into an unnamed tributary of the Waingongoro River	1 June 2035	June 2023	
	0213-3	To take and use water from the Waingongoro River for municipal water supply purposes	Expired-Section 124 protection	-	
Hawera WTP	0146-2	To take and use water from the Kapuni Stream for municipal water supply purposes	1 June 2020	-	Raw water is abstracted from the Kapuni Stream and pumped to the WTP. It passes through grit tanks and a 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 then pH adjusted using caustic soda, chlorinated, and fluoride 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
	0933-3	To discharge up to 227 m ³ /day of settling pond supernatant from a WTP into the Kapuni Stream	1 June 2023	-	
	7002-1	To take and use up to 4,320 m ³ /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	1 June 2023	-	
	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	1 June 2023	-	
	7446-1	To discharge membrane backwash water and cleaning wastewater from the Kapuni WTP into the Kapuni Stream	1 June 2023	-	
	7447-1	To install, use and maintain an outfall structure on the bank of the Kapuni Stream for the Kapuni WTP	1 June 2023	-	

Water Supply Scheme	Consent No	Description	Expiry Date	Next Review Date	Process
Inaha WTP	1185-3.1	To take water from the Mangatoki Stream in the Waingongoro catchment for Inaha rural water supply purposes	1 June 2023	-	Raw water is abstracted from two intake structures (weirs) on the Mangatoki Stream and a single intake (no weir) 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
	1186-3	To take water from the Waingongoro River for Inaha rural water supply purposes	1 June 2023	-	
	3927-3.0	To discharge backwash wastewater from the Inaha Rural WTP into an unnamed tributary of the Mangatoki Stream	1 June 2035	June 2023	
	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 2023	
	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 2023	
	4102-2	To maintain an existing low-level weir and fish pass across the Mangatoki Stream in the Waingongoro catchment	1 June 2023	-	
Opunake WTP	0232-4	To take and use water from the Waiaua River for Opunake town water supply purposes	1 June 2030	June 2024	Water is abstracted via submerged intake structure and is pumped to the adjacent WTP where it is membrane filtered and chlorinated
	5574-2	To discharge water treatment residuals, and pond drainage water from the Opunake WTP into the Waiaua River	1 June 2030	June 2024	
	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	
Patea groundwater supply	3388-3.1	To take and use groundwater from three bores (known as Bore 1, Bore 4 and Bore 5) for Patea Township water supply purposes	1 June 2028	June 2022	Groundwater is pumped from bores 1, 2 and 4 and then sent to reticulation. There is an option to chlorinate the water if necessary

Water Supply Scheme	Consent No	Description	Expiry Date	Next Review Date	Process
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 pumped from a pool in the Pungaereere Stream (no weir) to the adjacent treatment plant. Water is treated by clarification and membrane filtration
	6038-2	To discharge filter backwash water and settling tank waste from the Rahotu WTP into the Pungaereere Stream	1 June 2037	June 2025	
Wai-inu Beach Supply	3770-3	To take and use groundwater for Wai-inu Beach water supply purposes	1 June 2028	June 2023	Groundwater is pumped from a bore, chlorinated and then pumped to a reservoir for distribution
Waimate West WTP	0129-3.2	To discharge treated wash water from the Waimate Water Supply Scheme into an unnamed tributary of Kelly's Creek	1 June 2023	-	Raw water is diverted from the Otakeho and Mangawhero Streams to the Mangawhero-iti Stream. Water is then abstracted from the Mangawhero-iti Stream (all takes are via weirs) and gravity fed to the WTP. When sufficient water can be abstracted from the other two streams in the scheme, water from the Mangawhero Stream is avoided due to its turbidity. 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). 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. A groundwater bore has been commissioned to top up supply during low flow periods
	0634-3	To take water from the Mangawhero-iti Stream for the Waimate West water supply	1 June 2023	-	
	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	1 June 2023	-	
	10370-1.0	To take and use groundwater for Waimate West water supply purposes	1 June 2035	June 2023	
	3911-3.0	To take water from the Otakeho Stream for the Pope and Waimate West water supply schemes	1 June 2023	-	
	4446-2	To discharge treated backwash water from the Pope Rural WTP into an unnamed tributary of the Mangawhero Stream in the Kaupokonui catchment	1 June 2023	-	
	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 2023	
	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 2023	

Water Supply Scheme	Consent No	Description	Expiry Date	Next Review Date	Process
	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 2023	
Waverley groundwater 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	1 June 2022	-	Groundwater is pumped from the bores, which tap a confined aquifer in the Whenuakura formation, to a reservoir for distribution. The water passes through a sand trap prior to being pumped to a reservoir for distribution. There is no treatment
Waverley Beach	9563-1	To take and use groundwater for Waverley Beach water supply purposes	1 June 2028	June 2022	Groundwater is pumped from a bore to a reservoir for distribution. It is not chlorinated

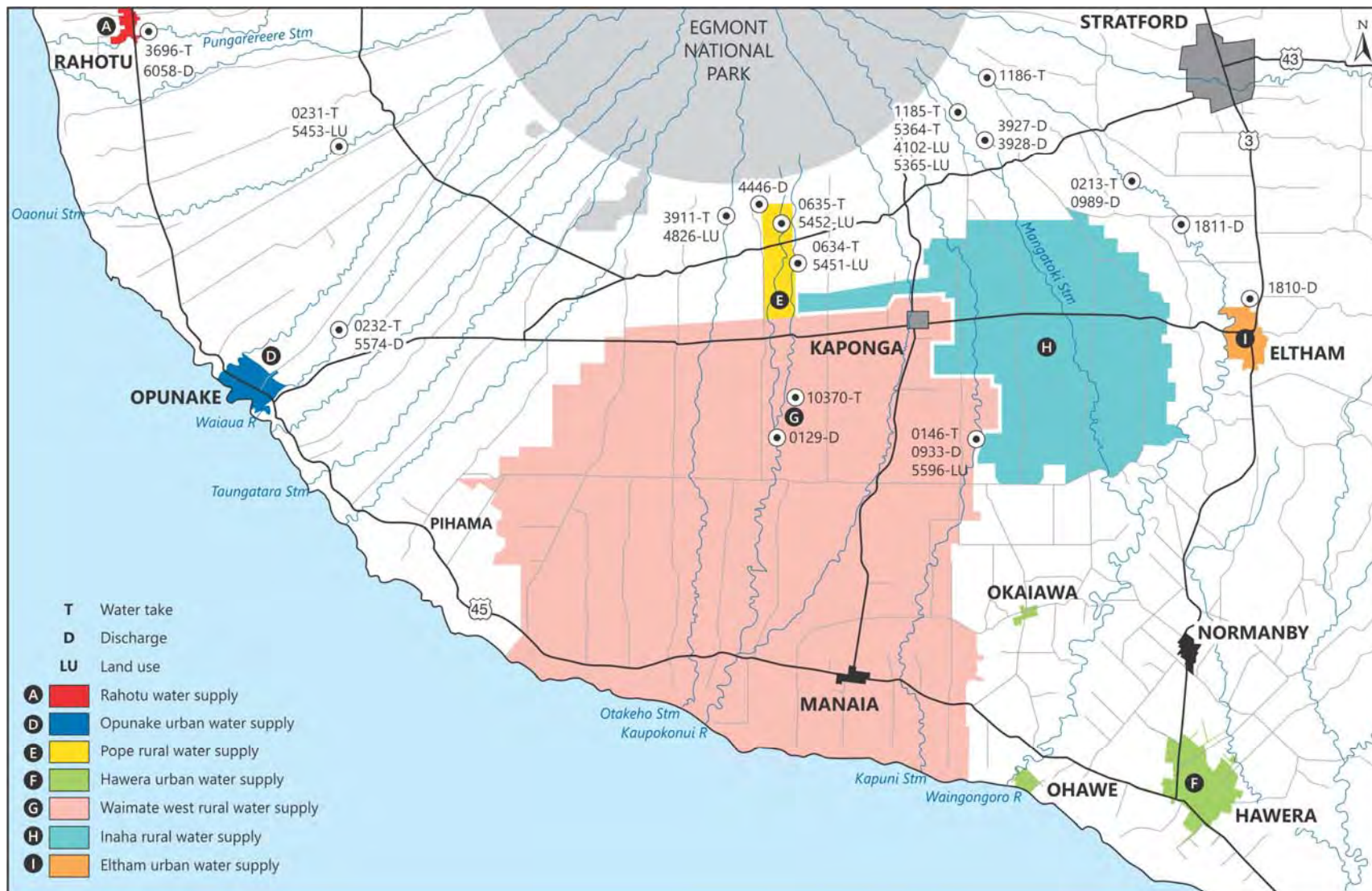


Figure 1 Location of STDC central and western resource consents



Figure 2 Location of STDC's southern consents

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's water supply schemes consisted of eight 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 undertaken. The inspections focussed on intake structures, fish passage, abstraction metering, abstraction rates and plant discharges.

1.3.4 Chemical sampling

The Council undertook audit sampling of discharges and receiving water samples were also collected in relation to discharges from the Kapuni WTP.

1.3.5 Biomonitoring surveys

Macroinvertebrate surveys were undertaken in relation to the Hawera and Waimate West WTP's to determine effects upon the stream communities due to the discharge of filter backwash and/or abstractions.

Fish surveys were undertaken in relation to the Inaha and Waimate West WTPs.

1.3.6 Hydrological surveys

Hydrological surveys were undertaken in order to check flows and maintain ratings curves.

1.3.7 Review of discharge quality data

STDC provided discharge sampling data to the Council throughout the monitoring year. This was reviewed by Council staff to ensure contaminant concentrations complied with consent conditions.

1.3.8 Review of abstraction 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.

1.3.9 Review of reports required by consents

Water conservation and leak detection reports are required by consents held by STDC. These are reviewed to ensure that the consent holder is minimising water usage.

2 Results

2.1 Water

2.1.1 Inspections

An annual inspection of Eltham, Inaha and Waimate West WTPs was conducted on 19 June 2020. An inspection of Opunake, Rahotu, Wai-inu, Waverly, Patea and Hawera WTPs was conducted on 30 June 2020.

19 June 2020

Eltham WTP

The discharge was clean and no issues were noted in the receiving water. The plants inflow was inspected, the reading was within the consent requirements and matched the telemetry data. The intake screen was inspected and no issues were noted.

Inaha WTP

Both Mangatoki intake weirs were inspected and the fish passes were working well. The Mangatoki inflow meter was checked and it was compliant and matched the telemetered data. The Waingongoro flow meter was checked and was found to be compliant. A sample was taken which was compliant.

Waimate West WTP

The swing bridge at Mangawhero weir was broken and the stream was too high to cross so the weir was inspected from above with no issues noted. Mangawhero-iti weir was in good order and there was good flow in the fish passes. The Otakeho weir was functioning well. The Otakeho abstraction flow meter was inspected and it was found that the intake was compliant and matched the telemetered data. The Mangawhero-iti abstraction meter was inspected and found that the abstraction rate was in compliance and matched the telemetered data. No issues were noted during inspection.

The bore at Rowan Road was abstracting and compliant which matched telemetered data.

30 June 2020

Opunake WTP

The intake structure was inspected and no issues were noted. Abstraction rate was compliant and matched telemetered data flow rate.

Rahotu WTP

The site was visited to conduct a compliance monitoring inspection. The intake pipe was inspected and found to be free of debris. The flow meter was checked and no discharge was occurring at the time. The site was found to be compliant with consent conditions and no issues were noted.

Wai-inu Beach WTP

The groundwater bore and reservoir tanks were inspected, it was noted that the casing may require attention in the future.

Waverley Beach Water Supply

The existing bore (permitted use) and plant were inspected and found to be compliant. No issues were noted.

Waverley Water Supply

Swinburne Street bore (GND2242) was abstracting at the time of the site visit. Flow rates were compliant and matched telemetered data. Chester and Fookes Street bores were not operating. No issues were noted in regard to bore construction and integrity. All flows are being metered at the point of abstraction.

Patea Water Supply

At the time of the site visit, Patea water supply bore four was running and abstracting 19.15 m³/hr (5.3 L/s) which was well within consent conditions. Bores one and five were not in service. All flows were being metered at the point of abstraction.

Hawera WTP

During the inspection, the Kapuni Stream was running at moderate swift flow, clear and uncoloured. The Kapuni Stream abstraction rate was well within consent conditions. The supply bore was also within consent conditions and matched telemetered data. No discharge was occurring from the backwash settling ponds into the Kapuni Stream. No samples were collected on this occasion. The intake and fish pass appeared to be in good condition. The Kapuni Intake was also inspected. 'A' pump was operating at the time of inspection. The fish pass structure remained in good condition and was clear of any obstructions.

2.2 Results of discharge monitoring

2.2.1 Kapuni WTP

Discharge and receiving water samples were taken at the Kapuni WTP (Figure 3) on two occasions and the results are presented in Tables 2 and 3.



Figure 3 Aerial photo showing locations of the Kapuni WTP, and relevant sampling sites

Table 2 Kapuni WTP sample results, 27 August 2019

Parameter	Unit	Upstream (KPN000300)	Pond discharge (STW002080)	Downstream (KPN000301)	Consent limits for discharge
Free available chlorine	g/m ³	-	< 0.07	-	<0.1
Conductivity @ 25°C	mS/m	13.3	34.1	13.2	-
Sodium	g/m ³	12	49	12	-
pH	pH	7.6	7.7	7.6	6-9
Suspended solids	g/m ³	-	4	-	20
Temperature	Deg C	9.5	11.7	9.9	-
Turbidity	NTU	1.3	1.1	1.1	-

Table 3 Kapuni WTP sample results, 25 February 2020

Parameter	Unit	Upstream (KPN000300)	Pond discharge (STW002080)	Downstream (KPN000301)	Consent limits for discharge
Free available chlorine	g/m ³	-	< 0.07	-	<0.1
Conductivity @ 25°C	mS/m	12.4	14.6	12.4	-
Sodium	g/m ³	9.2	15	10	-
pH	pH	7.7	7.8	7.6	6-9
Suspended solids	g/m ³	-	4	-	20
Temperature	Deg C	14.8	18.8	14.5	-
Turbidity	NTU	0.86	0.82	0.82	

Samples were compliant with consent conditions.

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 to the Kapuni Stream, upstream of the WTP discharge, which have limits placed on them 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.

2.3 Discharge data review

STDC monitors the quality of all of its discharges on a monthly basis, both visually for effects on the receiving environment, and for concentrations of contaminants in the discharge. The Council now has access to the quantity data for most of STDC's discharges which display max daily volumes. This data was accessed and reviewed and it was found that the results indicated the monthly samples were in compliance with consent conditions. Self-monitoring data indicated non-compliances with the rate of discharge at Waimate West and Opunake on occasion throughout the monitoring period.

Table 4 STDC's discharge self-monitoring quality summary (Eltham, Inaha, Kapuni, Rahotu, Waimate West)

Site	No of samples taken	Free available chlorine % compliance	pH % compliance	Suspended solids % compliance
Eltham WTP	17	100	100	100
Inaha WTP	11	100	100	100
Kapuni WTP	14	100	100	100
Rahotu WTP	13	100	100	-
Waimate West WTP	13	100	100	100
Consent limits	-	0.1 g/m ³	6-9	20 g/m ³

Table 5 STDC's discharge self-monitoring quality summary (Opunake)

Site	No of samples taken	Free available chlorine % compliance	pH % compliance	Suspended solids % compliance
Opunake	10	100	100	100
Consent limits	-	0.1 g/m ³	6.5-8.5	50 g/m ³

Table 6 STDC's discharge self-monitoring quantity summary

Plant	Consent number	Source	Daily volume limit m ³	Compliance with daily volumes	Discharge rate limit L/s	Completeness of data
Eltham	0989	Discharge to land	5,000	NE	N/A	NE
Opunake	5574	Waiaua	120	86%	N/A	100%
Waimate West (Pope WTP)	0129	Discharge to an unnamed tributary of Kelly Creek	750	95%	N/A	100%
	4446	Discharge to an unnamed tributary of the Mangawhero Stream	6	N/A	5	N/A

Key: NE= consent not exercised N/A= no limit set in consent

2.4 Results of biomonitoring

2.4.1 Macroinvertebrate surveys

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

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_s scores 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_s 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 taxa richness, MCI or the SQMCI_s between sites may indicate the degree of adverse effects (if any) caused by water abstractions.

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

2.4.1.1 Kapuni Stream macroinvertebrate survey (Hawera WTP)

25 February 2020

Streambed macroinvertebrates were collected from two sites on the Kapuni Stream to examine the effects of discharges to the stream from the Hawera WTP. This annual survey was carried out in summer. Macroinvertebrates were identified and the number of different types of taxa counted (taxa richness), macroinvertebrate community index (MCI) and semi-quantitative macroinvertebrate community index (SQMCI) scores were calculated for each site.

MCI scores and SQMCI scores categorised both sites as having 'very good' or 'excellent' macroinvertebrate community health at the time of the survey. Taxa richness were moderate at both sites. Taxa richness and SQMCI scores were similar to historic medians. The MCI score was significantly higher than the historic median at site 1, and although the score at site 2 was not significantly higher than the historic median, it was the highest MCI score recorded to date at this site. Additionally, no significant changes in any invertebrate metric were recorded between the two sites.

The macroinvertebrate communities at these two sites contained substantial proportions of 'sensitive' taxa. The communities at the two sites were relatively similar with 64% of the taxa found in the survey recorded at both sites. These results are not indicative of any significant adverse impacts caused by the backwash discharge from the Hawera WTP.

2.4.1.2 Waimate West WTP macroinvertebrate survey (Mangawhero-iti Stream)

The Council's 'kick-sampling' technique was used at four sites on two occasions to collect streambed macroinvertebrates from the Mangawhero-iti Stream in relation to STDC's Waimate West WTP. This has provided data to assess any potential impacts the consented water abstraction may have had on the macroinvertebrate communities of the stream. Samples were processed to provide number of taxa (richness), MCI, and SQMCI scores for each site.

The abstraction of surface water particularly for extended periods of time may result in significant adverse effects on the macroinvertebrate communities living within a waterbody by potentially reducing flow velocities, wetted habitat area, and dissolved oxygen levels and increasing stream temperature, periphyton abundance, macrophytes, pH, and deposited sediment. The surveys were undertaken to monitor whether the operation of the Waimate West WTP was having an effect on the macroinvertebrate communities in the Mangawhero-iti Stream downstream of the water take under spring conditions.

25 November 2019

Taxa richness was slightly lower than site medians, but within the previously recorded range at all sites. A high proportion of 'sensitive' taxa were recorded, and all four sites were numerically dominated by

'sensitive' taxa. Three taxa were characteristic to all four sites including the 'highly sensitive' taxon (mayfly (*Deleatidium*)) and two 'moderately sensitive' taxa (beetle, Elmidae, and mayfly, *Austroclima*).

MCI scores were reflective of 'very good' macroinvertebrate health at sites 1, 2 and 3 and 'good' health at site 4. MCI scores were higher than the previous survey scores and respective medians at all four sites. The 'very good' MCI scores recorded at sites 1 and 2, provided evidence that water abstraction by Waimate West WTP had not had a detrimental impact on the macroinvertebrate communities at site 2. MCI scores decreased in a downstream direction, with a significant decline between sites 3 and 4. The MCI score recorded at site 1 was also significantly higher than that recorded at sites 3 and 4. Typically in Taranaki ring plain streams, the health of macroinvertebrate communities decreases downstream because of the cumulative impacts of agricultural discharges. The results of the current survey were consistent with this.

SQMCI scores were reflective of 'excellent' health at sites 1, 2 and 3 and 'very good' health at site 4. SQMCI scores were not significantly different to one another and were higher than the previous survey scores at all four sites. The SQMCI score recorded at site 1 was slightly lower than the median for the site, while the three downstream sites all recorded SQMCI scores higher than their respective medians. The SQMCI score recorded at site 4 was the highest score recorded for the site to date and was significantly higher than the site median.

The high MCI and SQMCI scores recorded in the current survey were a reflection of the high proportions of sensitive taxa recorded in this survey. 'Sensitive' taxa were also numerically dominant at all sites. In comparison to the previous summer survey, the proportion of "sensitive" taxa had increased at all sites, which can be attributed to seasonal habitat changes including increased flow and a decrease of nuisance periphyton.

In comparison to the predicted MCI scores based on altitude and distance from the National Park boundary the MCI scores recorded upstream at sites 1 and 2 were both significantly higher than the predicted values. The MCI score recorded at site 3 was substantially higher than the MCI scores based on altitude, while was significantly higher than the MCI based on distance. The MCI score recorded at site 4 was similar to the predicted values.

24 February 2020

Numbers of taxa (richness) were moderate to moderately high across the four sites surveyed. All sites recorded numbers that were within the previously recorded ranges. A high proportion of 'sensitive' taxa was recorded, and all four sites were numerically dominated by 'sensitive' taxa. Two taxa were characteristic to all four sites including the 'highly sensitive' taxon (mayfly, *Deleatidium*) and 'moderately sensitive' taxon (beetle, Elmidae), which represented reasonable preceding water quality at all four sites.

MCI scores were reflective of 'very good' macroinvertebrate health at sites 1 and 2, and 'good' health at sites 3 and 4. Site 4 recorded an MCI score that was the highest recorded for the site to date and was significantly higher than both the median for the site and the previous survey score. Contrary, sites 1, 2 and 3 all recorded MCI scores lower than previous survey scores, which can largely be attributed to seasonal habitat changes. The 'very good' MCI scores recorded at both sites 1 and 2 provided evidence that water abstraction by Waimate West WTP had not had a detrimental impact on the macroinvertebrate communities at site 2. The decrease in MCI score between site 3 (situated approximately 3 km downstream of the water intake) and the two upstream sites can be attributed to the cumulative impacts of agricultural discharges, but also to subtle habitat differences, such as reduced shading and to increased filamentous periphyton at site 3. The overall decrease in MCI scores in a downstream direction between sites 1 and 4 can be attributed to the cumulative impact of agricultural discharges within the catchment, rather than to any effects associated with the operation of the Waimate West WTP.

SQMCI scores were reflective of 'excellent' health at sites 1 and 2 and 'very good' health at sites 3 and 4. The SQMCI score recorded at site 1 was significantly higher than that recorded downstream at site 4, but was

not significantly different to the scores recorded at sites 2 and 3. Site 2 recorded the highest SQMCI score of the four sites surveyed, and was the highest score recorded for this site to date. This score was substantially higher than that recorded at site 1 and significantly higher than the SQMCI scores recorded at sites 3 and 4. The high SQMCI score recorded at site 2 can predominantly be attributed to the presence of two taxa in particular; the 'extremely abundant' and 'highly sensitive' mayfly (*Nesameletus*) and the 'very abundant' and 'highly sensitive' mayfly (*Deleatidium*). Whilst sites 1 and 2 were exclusively dominated by 'sensitive' taxa, sites 3 and 4 also recorded abundant 'tolerant' taxa, resulting in decreased SQMCI scores at the two lower sites. Site 4 recorded the 'tolerant' taxon (oligochaete worms), while site 3 recorded numerous abundant 'tolerant' taxa including caddisfly (*Hydropsyche-Aoteapsyche*), and midges (Orthoclaadiinae, Tanytarsini and *Maoridiamesa*).

In comparison to the predicted MCI scores based on altitude and distance from the National Park boundary there were only two results of significance, with sites 1 and 4 both recording MCI scores that were significantly higher than the predicted values based on distance.

Overall, the results of the surveys found no evidence that water abstraction from the Mangawhero-iti Stream by Waimate West WTP had had a significant effect on the freshwater macroinvertebrate communities downstream of the abstraction point. Macroinvertebrate indices did decrease in a downstream direction, which would most likely be due to the negative effects of agricultural discharges on the macroinvertebrate communities.

2.4.2 Fish survey

During the period under review the Council undertook fish surveys in the Mangatoki and Mangawhero-iti, A summary of the reports is given below, a copy of the full reports can be obtained on request to Council.

2.4.2.1 Mangatoki Stream – Inaha water supply scheme

A fish survey was conducted on 28 January 2020 upstream and downstream of two STDC water supply weirs in the Mangatoki Stream in relation to the Inaha water supply. The survey was undertaken using the electric fishing methodology and found that diversity was low, typical of the high altitudes where these weirs are located. Juvenile brown trout were recorded upstream of both weirs, and this indicated that adult trout are able to pass both of the Mangatoki Stream weirs, most likely when the stream is in higher flow, as this is when adult trout migrate up to spawn. Native fish were not recorded in abundance in the stream, making the assessment of fish pass effectiveness for native fish difficult. Previous surveys in the Mangatoki Stream have also found a paucity of native species, and this is considered to be directly related to downstream barriers, primarily the Normanby Weir, and the presence of an abundant brown trout population. An inspection of the weirs and fish passage provisions determined that it was unlikely that they constitute a barrier to those fish able to migrate to this point in the stream.

It is recommended that future monitoring be performed in three years (subject to any changes within the catchment i.e. removal of downstream barriers or degradation/improvement of current fish passage facilities), to better document the native fish community upstream and downstream of these weirs, particularly since there appears to be considerable habitat available in this stream for native fish.

2.4.2.2 Mangawhero-iti Stream – Waimate West supply scheme

An electric fishing survey was conducted at five sites in the Mangawhero-iti from 11 March 2020. The purpose of the survey was to assess compliance with the fish passage condition of the consent held for the weir, and to assess the fish communities downstream of it in relation to the residual flow provisions of the water abstraction consent.

Results of this survey indicate that the Mangawhero-iti Stream supported a depauperate fish community. Only four fish species were recorded downstream of the weir (longfin eels, shortfin eel, lamprey, and brown

trout), and only two species recorded upstream (longfin eel and brown trout). The lack of any bully species or galaxid species is unexpected as these are considered to be fairly numerous and ubiquitous throughout Taranaki. The cause of their absence is difficult to discern, however, it is obvious that the catchment has unidentified issues downstream preventing native fish from populating the upper reach.

Several issues were identified with the fish pass upon inspection. Current results indicate that the fish pass is likely a barrier for native migrant species including eel to some degree (the best climbers) as well as trout.

2.5 Abstraction data review

Data is collected from STDC and tabulated and archived in the Council's database. Below (Table 7) is a summary of data that shows the level of compliance with daily volumes, abstraction rates and data supply.

Table 7 Summary of abstraction data compliance

Plant	Source	Records on time?	Daily volume limit m ³	Compliance with daily volumes	Abstraction rate limit L/s	Compliance with abstraction rates	Completeness of data
Eltham	Waingongoro	Yes	5,520	100%	64	100%	100%
Hawera	Kapuni	Yes	10,757	100%	124.5	100%	100%
	Kapuni bore	Yes	4,320	100%	50	100%	100%
Inaha	Mangatoki	Yes	2,504	100%	29	95%	100%
	Waingongoro	Yes	2,592	100%	30	99%	100%
Opunake	Waiaua	Yes	2,200	100%	25.5	99%	100%
Patea	Bore 1	Yes	300	100%	4.7	100%	100%
	Bore 4	Yes	N/A	N/A	10	95%	100%
	Bore 5	Yes	N/A	N/A	10	100%	100%
	Combined	Yes	1,125	99%	N/A	N/A	100%
Rahotu	Pungaereere	Yes	180	100%	3.0	100%	100%
Wai-inu	Wai-inu bore	Yes	346	100%	4.0	100%	100%
Waimate West	Mangawhero-iti	Yes	N/A	N/A	121	97%	100%
	Otakeho	Yes	N/A	N/A	85	99%	100%
	Mangawhero	Yes	N/A	N/A	70	100%	100%
	Rowan Rd	Yes	432	100%	N/A	N/A	100%
Waverley	Chester St bore	Yes	400	100%	7.0	100%	100%
	Fookes St bore	Yes	500	100%	7.2	100%	100%
	Swinbourne St bore	Yes	890	100%	10.3	99%	100%
	Combined Take	Yes	900	100%	14.2	100%	100%
Waverley	Bore 2	Yes	NE	NE	NE	NE	NE

Key: NE= consent not exercised N/A= no limit set in consent

2.6 Residual flow and groundwater level data

Stream flow and groundwater level data was also collected and reviewed for compliance with consent conditions. The results are summarised in Table 8.

Table 8 Groundwater level and residual stream flow compliance summary

Plant	Source	Type of data	Records on time	Residual flow/level limit on consent?	Compliance with limits	Completeness of data
Patea	Brannigan's Bore	Groundwater level	Yes	48 mbgl*	Yes	100%
Waimate West	Mangawhero-iti Stream	Stream flow	Yes	32 L/s	87%	100%
Waverley	Chester St bore	Groundwater level	Yes	No	N/A	100%
	Fookes St bore	Groundwater level	Yes	No	N/A	100%
	Swinbourne St bore	Groundwater level	Yes	No	N/A	100%

*Metres below ground level

2.7 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 2019-2020 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

Older resource consents require that records of daily volumes of water abstracted are to be provided. Some of the newer consents require 15 minute abstraction rates to be telemetered. STDC has been very proactive in having all abstraction data for all consents telemetered to Council's database regardless of whether consent conditions require it or not. During the monitoring period a greater than 99% 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 100% compliant with consent conditions for levels of free available chlorine, pH, and suspended solids throughout the monitoring year.

Discharge rates at Opunake complied with consent conditions 86% of the time, this was a large improvement on the 59% compliance during 2018-2019 and STDC has advised that the issue should be fully resolved for the 2020-2021 period.

Reports required by consents 0146-2, 0232-4, 0634-3, 1185-3, 1186-3, 3696-3 and 3911 on efficient water use, leak detection and repair were submitted to the Council.

All water abstraction records for the period were provided in timely manner.

3.2 Environmental effects of exercise of consents

Filter backwash discharge sampling was conducted at the Kapuni WTP. 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 or discharges associated with the Kapuni or Mangawhero-iti streams.

Fish surveys in relation to the Inaha WTP (Mangatoki Stream) and the Waimate West WTP (Mangawhero-iti Stream) were inconclusive as to whether the weirs were causing a barrier to fish passage.

Overall the STDC demonstrated a high level of environmental performance.

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 9-43.

3.3.1 Eltham WTP

Table 9 Summary of performance for Consent 0213-3 (Eltham WTP)

Purpose: To take and use water from the Waingongoro River for municipal water supply purposes		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Limit on abstraction volume and rate	Review of abstraction data provided	Yes
2. Recording of abstraction data and provision of records to Council	Data received - 100% complete	Yes

Purpose: To take and use water from the Waingongoro River for municipal water supply purposes		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
3. Consent to be exercised in accordance with application	Inspection and liaison with consent holder	Yes
4. Quantification of reticulation system losses and reporting	One off report received 1 March 2001	Yes
5. Investigation and report on blocking of intake	One off report received 18 January 2002	Yes
6. Review of SC1 in 2002 to assess water conservation measures	Liaison with consent holders	N/A
7. Mitigation by riparian planting	Completed	Yes
8. Review provision	Consent has expired	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

Table 10 Summary of performance for Consent 0989-3 (Eltham WTP)

Purpose: To discharge water from the Eltham water supply reservoir onto land adjacent to the Waingongoro River		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Best practicable option to prevent or minimise adverse effects	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 ³ 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	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 ³	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	Next review option June 2023	N/A

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

Table 11 Summary of performance for Consent 1811-4 (Eltham WTP)

Purpose: To discharge filter backwash from the Eltham WTP		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Best practicable option to prevent or minimise adverse effects	Inspection	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
4. Review provision	Next review option June 2023	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

3.3.2 Hawera WTP

Table 12 Summary of performance for Consent 0146-2 (Hawera WTP)

Purpose: To take and use water from the Kapuni Stream for municipal water supply purposes		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Limit on abstraction volume and rate	Review of abstraction data provided	100%
2. Recording of abstraction data and provision of records to Council	Data received - 100% complete	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	Yes
5. Mitigation by riparian planting	Total amount has been paid to the Taranaki Tree Trust	Yes

Purpose: To take and use water from the Kapuni Stream for municipal water supply purposes		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
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 has expired	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

Table 13 Summary of performance for Consent 0933-3 (Hawera WTP)

Purpose: To discharge up to 227 m³ /day of settling pond supernatant from a water treatment plant into the Kapuni Stream		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Adoption of best practicable option	Inspections and liaison with consent holder	Yes
2. Exercise of consent in accordance with application documentation	Inspections and liaison with consent holder	Yes
3. Notification prior to exercise	Notification received	N/A
4. Permanent solution for treatment of wastes at time of upgrade in 2008	Backwash settling pond operating	Yes
5. Proper and efficient maintenance and operation of settlement system	Inspections and liaison with consent holder	Yes
6. Discharge not to have adverse effects on receiving waters	Inspection, sampling and macroinvertebrate surveys	Yes
7. Limits on certain parameters in the discharge	Sampling and review of consent holder data	Yes
8. Lapse provision	Not applicable – consent exercised	N/A
9. Review provision	No further options for review prior to expiry	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

Table 14 Summary of performance for Consent 7002-1 (Hawera WTP)

Purpose: To take and use groundwater for municipal, rural, industrial, and recreational supply purposes (Hawera)		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Exercise of consent to be in accordance with application	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. Abstraction not to exceed 4,320 m ³ /day	Review of abstraction data provided	100%
5. Abstraction not to cause a more than 10% drop in static water level by interference	Not assessed	N/A
6. Maintain records of the abstraction from each bore	Data received - 100% complete	Yes
7. Install device to record abstraction	Inspection and data received by Council	Yes
8. Consent holder to meet monitoring costs	Liaison with consent holder	Yes
9. Lapse provision	Not applicable – consent exercised	N/A
10. Review provision	No further options for review prior to expiry	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

Table 15 Summary of performance for Consent 7413-1 (Hawera WTP)

Purpose: To erect, use and maintain a water intake structure on the bed of the Kapuni Stream		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Exercise of consent to be in accordance with application	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
5. Minimise sediment entering stream	No maintenance during monitoring period	N/A

Purpose: To erect, use and maintain a water intake structure on the bed of the Kapuni Stream		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
6. Structure removed and area reinstated when no longer required	Structure in use	N/A
7. Consent holder to monitor and maintain fish pass	Inspection	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	No further option for review	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

Table 16 Summary of performance for Consent 7446-1 (Hawera WTP)

Purpose: To discharge membrane backwash water and cleaning wastewater into the Kapuni Stream		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Best practicable option to minimise adverse effects	Inspection and liaison with consent holder	Yes
2. No adverse effects on receiving waters	Inspection, sampling, biomonitoring	Yes
3. Allowable increase in turbidity below mixing zone	Sampling	Yes
4. Levels of contaminants in discharge	Sampling and review of consent holder data	Yes
5. Lapse provision	Not applicable– consent exercised	N/A
6. Review provision	No further option for review	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

Table 17 Summary of performance for Consent 7447-1 (Hawera WTP)

Purpose: To install, use and maintain an outfall structure on the bank of the Kapuni Stream		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Exercise of consent to be in accordance with application	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	No further option for review	Yes
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

3.3.3 Inaha WTP

Table 18 Summary of performance for Consent 1185-3 (Inaha WTP)

Purpose: To take water from the Mangatoki Stream in the Waingongoro catchment for Inaha rural water supply purposes		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
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 ³ /day	Review of abstraction records	100% (volume) 95% (rate)
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	NES verification	Yes
6. Notification of equipment failure	No notification received	N/A

Purpose: To take water from the Mangatoki Stream in the Waingongoro catchment for Inaha rural water supply purposes		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
7. Intake structure maintained, and removed if no longer required	Inspection	Yes
8. Water meter and data logger accessible to Council staff	Inspection	Yes
9. Suitable format of water records	Review of abstraction records	Yes
10. Water records to be transmitted in 'real time' to Council	Data received - 100% complete	Yes
11. Intake structure to be screened	Inspection	Yes
12. Intake structure not to block fish passage	Inspection and fish survey	Yes
13. Leak detection and repair programme with annual report	Report received	Yes
14. Review provision	No further option for review prior to expiry	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		Good
Overall assessment of administrative performance in respect of this consent		High

Table 19 Summary of performance for Consent 1186-3 (Inaha WTP)

Purpose: To take water from the Waingongoro River for Inaha rural water supply purposes		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Adoption of best practicable option	Inspection and liaison with consent holder	Yes
2. Exercise in accordance with application	Inspection and liaison with consent holder	Yes
3. Maximum abstraction 2,592 m ³ /day at 30 L/s	Review of abstraction data	100% (volume) 99% (rate)
4. Measure and record abstraction rate and provide to Council	Data received - 100% complete	Yes
5. Maintain intake structure and remove when no longer required	Inspection and liaison with consent holder	Yes
6. Intake screened to avoid fish entrainment	Inspection	Yes
7. Intake structure shall not obstruct fish passage	Inspection	Yes
8. Report annually on efficient water use, leak detection and repair	Report received	Yes
9. Lapse provision	Not applicable – consent exercised	N/A

Purpose: To take water from the Waingongo River for Inaha rural water supply purposes		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
10. Review provision	No further option for review prior to expiry.	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

Table 20 Summary of performance for Consent 3927-3 (Inaha WTP)

Purpose: To discharge backwash wastewater from the Inaha Rural Water Supply Treatment Plant into an unnamed tributary of the Mangatoki Stream		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Adopt best practice	Inspection	Yes
2. Discharge not to cause certain effects in the receiving waters	Inspection	Yes
3. Limits on chlorine and suspended solids in the discharge	Consent holder sample data reviewed	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		High
Overall assessment of administrative performance in respect of this consent		High

Table 21 Summary of performance for Consent 3928-3 (Inaha WTP)

Purpose: To discharge uncontaminated overflow water from the Inaha Rural WTP via a settlement pond into an unnamed tributary of the Mangatoki Stream		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Adopt best practice	Inspection	Yes
2. Discharge not to cause certain effects in the receiving waters	Inspection/sampling/data review	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		High
Overall assessment of administrative performance in respect of this consent		High

Table 22 Summary of performance for Consent 4102-2 (Inaha WTP)

Purpose: To maintain a low-level weir and fish pass across the Mangatoki Stream to improve water intake efficiencies		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Adoption of best practicable option	No maintenance during period under review	N/A
2. Exercise of consent in accordance with application documentation	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 properly maintained	Inspection	Yes
9. Structure not to impede fish passage	Inspection	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	No further option for review	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

Table 23 Summary of performance for Consent 5365-2 (Inaha WTP)

Purpose: To erect, place and maintain a low level intake weir in the Mangatoki Stream for Inaha rural water supply scheme purposes		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
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

Purpose: To erect, place and maintain a low level intake weir in the Mangatoki Stream for Inaha rural water supply scheme purposes		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
3. No obstruction of fish passage	Inspection and fish survey	Yes
4. Review provision	Option for review in June 2023	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

3.3.4 Opunake WTP

Table 24 Summary of performance for Consent 0232-4 (Opunake WTP)

Purpose: To take and use water from the Waiaua River for Opunake town water supply purposes		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Rate of take not to exceed 2,200 m ³ /day or 25.5 L/s	Review of abstraction data	100% (volume) 99% (rate)
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 ³ /day or 42.2 L/s	No take through old intake	N/A
4. Notify Council if take occurs through old intake	No take through old intake occurred	N/A
5. Installation and maintenance of water meter and data logger	Inspection	Yes
6. Water meter certification	Meter NES verified	Yes
7. Notify Council of equipment failure	No equipment failure noted	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 - 100% complete	Yes
11. Best practicable option to prevent or minimise adverse effects	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

Purpose: To take and use water from the Waiaua River for Opunake town water supply purposes		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

Table 25 Summary of performance for Consent 5574-2 (Opunake WTP)

Purpose: To discharge water treatment residuals and pond drainage water from the Opunake WTP into the Waiaua River		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Best practicable option to prevent or minimise adverse effects	Inspections and liaison with consent holder	Yes
2. Discharge not to exceed 120 m ³ /day	Review of consent holder data	No - 86% compliance throughout the monitoring period.
3. Not to give rise to effects in receiving waters	Inspection	Yes
4. Limits on contaminants in 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		Good
Overall assessment of administrative performance in respect of this consent		High

Table 26 Summary of performance for Consent 9473-1 (Opunake WTP)

Purpose: To construct, place and use a water intake structure on the bed of the Waiaua River for water abstraction purposes		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Intake 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. No obstruction of fish passage	Inspection	Yes
7. Financial payment	Payment received	Yes

Purpose: To construct, place and use a water intake structure on the bed of the Waiaua River for water abstraction purposes		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
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 in June 2024	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

3.3.5 Patea WTP

Table 27 Summary of performance for Consent 3388-3.1 (Patea Bores)

Purpose: To take and use groundwater from three bores (known as Bore 1, Bore 4 and Bore 5) for Patea Township water supply purposes		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Total daily extraction not to exceed 1,125 m ³	Review of data	99%
2. Each bore not to exceed certain abstraction rates	Review of data	Bores 1, 5 = 100% Bore 4 = 95%
3. Bore 1 not to exceed 300 m ³ /day	Review of data	100%
4. Install flow meters	Inspection	Yes
5. Install data logger	Data received -100% complete	Yes
6. Inform Council of any equipment malfunction	Programme supervision	N/A
7. Provide access to equipment	Inspection	Yes
8. Adopt best practical option	Inspection	Yes
9. Measure level in Brannigan's bore	Groundwater level recorder installed	Yes
10. Consultations with Brannigan's bore owner if levels meet certain criteria	Liaison with consent holder – not necessary	N/A
11. Restrict use or provide water to Brannigan's bore owner if levels meet certain criteria	Liaison with consent holder – not necessary	Yes
12. Not to cause saltwater intrusion	Not assessed	N/A
13. Review provision	Next option for review in June 2022	N/A

Purpose: To take and use groundwater from three bores (known as Bore 1, Bore 4 and Bore 5) for Patea Township water supply purposes		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
Overall assessment of consent compliance and environmental performance in respect of this consent		Good
Overall assessment of administrative performance in respect of this consent		High

3.3.6 Pope WTP

Table 28 Summary of performance for Consent 4446-2 (Pope WTP)

Purpose: To discharge treated backwash water from the Pope rural WTP		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Adoption of best practicable option	No longer exercise	N/A
2. Exercise in accordance with application	No longer exercised	N/A
3. Maximum discharge of 6 m ³ /day at 5 L/s	No longer exercised	N/A
4. Limits not to be exceeded in the discharge	No longer exercised	N/A
5. Efficient operation	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	No more option for review	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		N/A
Overall assessment of administrative performance in respect of this consent		N/A

3.3.7 Rahotu WTP

Table 29 Summary of performance for Consent 3696-3 (Rahotu WTP)

Purpose: To take and use water from the Pungaereere Stream for the Rahotu community water supply scheme		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Limit on abstraction volume and rate	Review abstraction data provided to Council	100%
2. Installation and maintenance of water meter and data logger	Inspection	Yes
3. Water meter certification	Meter verified	Yes

Purpose: To take and use water from the Pungaereere Stream for the Rahotu community water supply scheme		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
4. Notify Council of equipment failure	No equipment failure during period under review	Yes
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 - 100% complete	Yes
8. Best practicable option to prevent or minimise adverse effects	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	Yes
11. Review provision	Next option for review June 2025	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

Table 30 Summary of performance for Consent 6038-2 (Rahotu WTP)

Purpose: To discharge filter backwash water and settling tank waste from the Rahotu WTP into the Pungaereere Stream		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Adoption of best practicable option to prevent or minimise adverse environmental effects	Inspections	Yes
2. Limits on chlorine, pH, and SS in 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
4. Results of discharge monitoring to be provided on request	Results received	Yes
5. Review provision	Next option for review is June 2025	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

3.3.8 Wai-inu Beach water supply

Table 31 Summary of performance for Consent 3770-3 (Wai-inu WTP)

Purpose: To take and use groundwater for Wai-inu Beach for water supply purposes		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Limit on abstraction volume and rate	Review of abstraction data provided to Council	100%
2. Installation and maintenance of water meter and data logger	Logger and meter installed - data received	Yes
3. Water meter certification	Received	Yes
4. Notify Council of equipment failure	No equipment failure during monitoring period	Yes
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 - 100% complete	Yes
7. Best practicable option to prevent or minimise adverse effects	Inspection and liaison with consent holder	Yes
8. Lapse provision	Not applicable – consent exercised	N/A
9. Review provision	Next option for review June 2022	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

3.3.9 Waimate West WTP

Table 32 Summary of performance for Consent 0129-3 (Waimate West WTP)

Purpose: To discharge treated wash water from the Waimate water supply scheme into an unnamed tributary of Kelly's Creek		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
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 in accordance with application	Inspection and liaison with consent holder	Yes

Purpose: To discharge treated wash water from the Waimate water supply scheme into an unnamed tributary of Kelly's Creek		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
4. Maximum discharge rate 750 m ³ /day	Review of consent holder data	Mostly - 95% 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	Not required
6. Limits on discharge not to be exceeded	Review of consent holder data	N/A
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	No further option for review	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		Good
Overall assessment of administrative performance in respect of this consent		High

Table 33 Summary of performance for Consent 0634-3 (Waimate West WTP)

Purpose: To take water from the Mangawhero-iti Stream for the Waimate West water supply		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Max rate of abstraction 121 L/s	Review of abstraction data provided	97%
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 provided	Yes
3. Installation of water meter and data logger and records of volumes abstracted	Inspections and abstraction data	Yes
4. Notification of installation of water meter and data logger	Received	Yes
5. Notification of equipment failure	No problems during monitoring period	Yes
6. Water meter and data logger accessible to Council	Inspections	Yes
7. Records of water taken in suitable format	Review of abstraction data provided	Yes
8. Flow in Mangawhero-iti Stream downstream of intake to be maintained above 32 L/s	Data provided	87%

Purpose: To take water from the Mangawhero-iti Stream for the Waimate West water supply		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
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 - 100% complete	Yes
11. Staff gauge to be installed	Installed by Council	Yes
12. Sufficient stream flow measurements undertaken to maintain a 'rating curve'	Gauging undertaken by Council	Yes
13. Best practicable option to prevent or minimise adverse environmental effects	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	No further option for review	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		Good
Overall assessment of administrative performance in respect of this consent		High

Table 34 Summary of performance for Consent 0635-3 (Waimate West WTP)

Purpose: To take water from the Mangawhero Stream to add to the flow of the Mangawhero-iti Stream for water supply purposes		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Max rate of take 70 L/s	Review of abstraction data provided	100%
2. Scope of use	Review of abstraction data provided	Yes
3. Installation of water meter and data logger and records of volumes abstracted	Inspections and abstraction data	Yes
4. Notification of installation of water meter and data logger	Received	Yes
5. Notification of equipment failure	N/A	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 provided	Yes
8. Measurements to be transmitted to Council in 'real time'	Data received - 100% complete	Yes

Purpose: To take water from the Mangawhero Stream to add to the flow of the Mangawhero-iti Stream for water supply purposes		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
9. Best practicable option to prevent or minimise adverse environmental effects	Inspections, data review	Yes
10. Review provision	No further option for review	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

Table 35 Summary of performance for Consent 3911-3 (Waimate West WTP)

Purpose: To take water from the Otakeho Stream for the Pope and Waimate West water supply schemes		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Max rate of take 85 L/s	Review of abstraction data provided	99%
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	Received	Yes
4. Notification of equipment failure	N/A	Yes
5. Water meter and data logger accessible to Council	Inspections	Yes
6. Records of water taken in suitable format	Review of abstraction data provided	Yes
7. Best practicable option to prevent or minimise adverse environmental effects	Inspections, data review	Yes
8. Annual report on leak detection and water use efficiency	Report received	Yes
9. Annual payments for wetland enhancements and riparian planting	Payment received	Yes
10. Review provision	No further option for review	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

Table 36 Summary of performance for Consent 4826-3 (Waimate West WTP)

Purpose: To dam water and use a weir and water intake structure on the bed of the Otakeho Stream		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
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
3. No obstruction of fish passage	Inspection and triennial fish surveys	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		High
Overall assessment of administrative performance in respect of this consent		High

Table 37 Summary of performance for Consent 5451-2 (Waimate West WTP)

Purpose: To dam water and use a water intake structure on the bed of the Mangawhero-iti Stream for water abstraction purposes		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
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 not to obstruct fish passage	Inspections and triennial fish survey	Unsure. Survey findings inconclusive
4. Review provision	Next option for review in June 2023	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		Good
Overall assessment of administrative performance in respect of this consent		High

Table 38 Summary of performance for Consent 5452-2 (Waimate West WTP)

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		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
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

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		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
3. Structure not to obstruct fish passage	Inspections and triennial fish survey	Yes
4. Review provision	Next option for review in June 2023	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

Table 39 Summary of performance for Consent 10370-1 (Waimate West WTP)

Purpose: To take and use groundwater for Waimate West water supply purposes		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Limits abstraction to 432 m ³ per 24 hour period	Data review	100%
2. Bore to be labelled	Inspection	Yes
3. The bore shall include a conduit (or 'dip tube')	Inspection	Yes
4. Installation of flow recording equipment	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	Document review	Yes
7. Notification of equipment failure	Document review	Yes
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	Next option for review in June 2023	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

3.3.10 Waverley water supply

Table 40 Summary of performance for Consent 3313-3 (Waverley bores)

Purpose: To take and use groundwater from the Fookes, Chester and Swinbourne Street bores for Waverley municipal supply purposes		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Combined take not to exceed 14.2 L/s or 900 m ³ /day	Review of abstraction data	100%
2. Daily maximum volume and abstraction limits for each bore	Review of abstraction data	Yes
3. Bores to have permanent labelling	Inspections	Yes
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	Notification received	Yes
8. Notification of non-operational measuring equipment	Review of notifications received	N/A
9. Best practicable option to prevent or minimise adverse effects	Inspections, review or data	Yes
10. No intrusion of salt water	Not assessed	N/A
11. Access to well provided for water measurement purposes	Inspections	Yes
12. Review of consent	No further option for review	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

3.3.11 Waverley Beach water supply

Table 41 Summary of performance for Consent 9563-1 (Waverley Beach supply)

Purpose: To take and use groundwater for Waverley Beach water supply purposes		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Limit on abstraction rate	Not exercised	N/A
2. No intrusion of salt water	Not assessed	N/A
3. Bores to have permanent labels	Inspected	Yes
4. Installation and maintenance of water meter and data logger	Inspected and data received	Yes
5. Water meter certification	Consent not exercised	N/A
6. Installation of water level monitoring devices	Consent not exercised	N/A
7. Water level certification	Consent not exercised	N/A
8. Water meter and data logger accessible to Council staff	Inspection	Yes
9. Notify Council of equipment failure	No equipment failure	N/A
10. Water records to be provided by 31 July each year	Consent not exercised	N/A
11. Best practicable option to prevent or minimise adverse effects	Consent not exercised	N/A
12. Lapse provision	Consent not exercised	N/A
13. Review provision	Next option for review June 2022	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

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

3.4 Recommendations from the 2018-2019 Annual Report

In the 2018-2019 Annual Report, it was recommended:

1. THAT for 2019-2020 the level of monitoring for the STDC Water Supplies remains similar to that of 2018-2019.
2. THAT should there be issues with environmental or administrative performance in the 2019-2020 period, monitoring may be adjusted to reflect any additional investigation or intervention as found necessary.
3. THAT the option for a review of resource consent 10370-1 in June 2020, not be pursued, on the grounds that the current 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.

4. THAT the discharge data is telemetered to the Council if the consent condition has discharge limits.

Recommendations one and three were implemented. It was not considered necessary to carry out additional monitoring or investigation as per recommendation two. Work is progressing on recommendation four.

3.5 Alterations to monitoring programmes for 2020-2021

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

- the extent of information already made available through monitoring or other means to date;
- its relevance under the RMA;
- the Council's obligations to monitor consented activities and their effects under the RMA;
- the record of administrative and environmental performances of the consent holder; and
- reporting to the regional community.

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

It is proposed that for 2020-2021 the programme remains unchanged from 2019-2020.

It should be noted that the proposed programme represents a reasonable and risk-based level of monitoring for the sites 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 2020-2021.

4 Recommendations

1. THAT in the first instance, monitoring of consented activities in relation to the STDC water supplies in the 2020-2021 year continue at the same level as in 2019-2020.
2. THAT should there be issues with environmental or administrative performance in 2020-2021, monitoring may be adjusted to reflect any additional investigation or intervention as found necessary.

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.
COD	Chemical oxygen demand. A measure of the oxygen required to oxidise all matter in a sample by chemical reaction.
Condy	Conductivity, an indication of the level of dissolved salts in a sample, usually measured at 25°C and expressed in mS/m.
DRP	Dissolved reactive phosphorus.
Fresh	Elevated flow in a stream, such as after heavy rainfall.
g/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.
L/s	Litres per second.
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.
mS/m	Millisiemens per metre.
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.
NH ₄	Ammonium, normally expressed in terms of the mass of nitrogen (N).
NH ₃	Unionised ammonia, normally expressed in terms of the mass of nitrogen (N).
NWMR	National Water Metering Regulations 2010.
NNN	Nitrate-Nitrite Nitrogen.
NTU	Nephelometric Turbidity Unit, a measure of the turbidity of water.
PACL	Poly aluminium chloride – a flocculant used in water treatment.
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.

Physicochemical Measurement of both physical properties (e.g. temperature, clarity, density) and chemical determinants (e.g. metals and nutrients) to characterise the state of an environment.

For further information on analytical methods, contact a Science Services 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.
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⁻³.
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

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.

Constituent	Standard
Suspended solids	Concentration not greater than 20 gm ⁻³
Free available chlorine	Concentration no greater than 0.1 gm ⁻³
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

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

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

*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. 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

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

*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

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:

Component	Concentration
suspended solids	20 g/m ³
free available chlorine	0.1 g/m ³
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

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 m³/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.

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

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

Consent 7413-1

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 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. 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

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.

Constituent	Standard
free available chlorine	Concentration not greater than 0.1 gm ⁻³
pH	Within the range 6.5 to 8.5
suspended solids	Concentration not greater than 20 gm ⁻³

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

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

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. 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

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. 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

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

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

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.

Constituent	Standard
Suspended solids	Concentration not greater than 20 gm ⁻³
Free available chlorine	Concentration no greater than 0.1 gm ⁻³
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

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

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

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

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 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

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.

Constituent	Standard
free available chlorine	Concentration not greater than 0.1 gm ⁻³
pH	Within the range 6.5 to 8.5
suspended solids	Concentration not greater than 50 gm ⁻³

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

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 ± 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

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

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 ⁻³
Free available chlorine	Concentration no greater than 0.1 gm ⁻³
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

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 m³/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

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

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 m³ per day, except in the following situations:
 - a) During plant start-up where the discharge shall not exceed 7,500 m³ per day for a one-off period of up to 10 days;
 - b) During clarifier drain-down where the discharge shall not exceed 1500 m³ per day, twice annually, for a maximum 24 hour period; and
 - c) During sludge pond dewatering where the discharge shall not exceed 1000 m³ 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:

Component	Concentration
free available chlorine	<0.1g/m ³
suspended solids	20 g/m ³
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

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

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

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 m³.
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

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

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:

Component	Concentration
free available chlorine	<0.1g/m ³
suspended solids	20 g/m ³
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

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

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



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



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

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 ± 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 ± 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

Chief Executive

