

NPDC Water Supplies Programme

Monitoring Programme

Annual Report

2023/24

Technical Report 2024-92



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Taranaki Regional Council
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Executive summary

New Plymouth District Council (NPDC) operates five water supply schemes in the New Plymouth District. This report for the period July 2023 to June 2024 describes the monitoring programme implemented by Taranaki Regional Council (the Council) to assess the Company'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 NPDC's activities.

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

NPDC holds 18 resource consents relating to those water supply systems, which included a total of 163 conditions setting out the requirements that the consent holder must satisfy. This included eight consents to take and use water, three consents to discharge to water, six consents to maintain structures, and one consent to discharge filter backwash onto and into land.

The Council's monitoring programme for the year under review included an annual inspection of each water supply scheme, hydrological gauging's at the Ngatoro water supply, Okato water supply and Oakura water supply, four samples collected for water quality analysis, one fish survey, and an assessment of the abstraction and discharge data provided by NPDC.

The monitoring showed that NPDC generally complied with their consent conditions in regard to discharge standards and abstraction rates. Chemical sampling of discharges and receiving waters and macroinvertebrate surveys indicated that the water supply schemes were not causing any adverse environmental effects. The fish survey undertaken in the Mangatete Stream (in relation to the Okato water supply) indicated that the presence of the weir was unlikely to be having any significant adverse effects on fish passage.

For reference, in the 2023/24 year, consent holders were found to achieve a high level of environmental performance and compliance for 864 (89%) of a total of 967 consents monitored through the Taranaki tailored monitoring programmes, while for another 75 (8%) of the consents a good level of environmental performance and compliance was achieved. A further 26 (3%) of consents monitored required improvement in their performance, while the remaining two (<1%) achieved a rating of poor.

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

This report includes recommendations for the 2024/25 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 2023 to June 2024 by Taranaki Regional Council (the Council) describing the monitoring programme associated with resource consents held by New Plymouth District Council (NPDC) for their various water supply schemes and water treatment plants (WTPs).

This report covers the results and findings of the monitoring programme implemented by the Council in respect of the consents held by NPDC that relate to abstractions and discharges of water, and in-stream structures. This is the 26th annual report to be prepared by the Council to cover NPDC's water abstractions, discharges and their effects.

1.1.2 Structure of this report

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

- consent compliance monitoring under the *Resource Management Act 1991* (RMA) and the Council's obligations;
- the Council's approach to monitoring sites through annual programmes;
- the resource consents held in relation to the WTP's;
- the nature of the monitoring programme in place for the period under review; and
- a description of the activities and operations conducted in the Company's site/catchment.

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 2024/25 monitoring year.

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

1.1.3 The Resource Management Act 1991 and monitoring

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

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

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

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

1.1.4 Evaluation of environmental performance

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

For reference, in the 2023/24 year, consent holders were found to achieve a high level of environmental performance and compliance for 864 (89%) of a total of 967 consents monitored through the Taranaki tailored monitoring programmes, while for another 75 (8%) of the consents a good level of environmental performance and compliance was achieved. A further 26 (3%) of consents monitored required improvement in their performance, while the remaining two (<1%) achieved a rating of poor.¹

1.2 Process description

The WTPs operated by NPDC generally operate in the following manner. Raw water is abstracted, coarse screened, and passed through clarifiers for coagulation and flocculation (aided by the addition of a chemical flocculent at some plants) and filtration. At one plant, water is passed through cartridge filters. Chemicals are then used to adjust pH and chlorinate the water prior to distribution.

The waste products from backwashing of the filters (and clarifier bleed at some sites) are either discharged to land or to a surface waterway via a settling pond (or tank) or are contained in cartridges disposed of at landfills.

1.3 Resource consents

NPDC holds 18 resource consents for water abstraction, water and sludge discharges, and structures. These consents are listed in Table 1 along with the purpose of each consent and a process description for each plant. Plant locations are shown in Figure 1. Summaries of the conditions attached to each permit are set out in Section 3 of this report. A summary of the various consent types issued by the Council is included in Appendix I, as are copies of all permits held by the Company during the period under review.

¹ The Council has used these compliance grading criteria for more than 20 years. They align closely with the four compliance grades in the MfE Best Practice Guidelines for Compliance, Monitoring and Enforcement, 2018

Table 1 Summary of resource consents and processes

Water Supply Scheme	Resource consent	Next Review	Expires	Activity	Process
New Plymouth	0672 - Discharge	-	2026	To discharge wastewater from a WTP into an unnamed tributary of the Mangorei Stream	Raw water is abstracted from the Waiwhakaiho River via Lake Mangamahoe. The Waiwhakaiho River is diverted through a tunnel to augment the supply of Lake Mangamahoe. The consent for this diversion (2053) is held by Manawa Energy (previously Trustpower Limited) and monitoring of this is included in the Mangorei Hydroelectric Power Scheme monitoring programme. Two intakes in Lake Mangamahoe and one from a small lagoon off the main body of water supplies the New Plymouth WTP (NPWTP). Flocculent and coagulant is added and water passes through clarifiers and then sand filters. Water is disinfected (chlorine gas) and pH buffered (lime). Clarifier bleed and filter backwash is discharged to settling ponds in front of the plant. Supernatant is returned to the treatment plant. Accumulated sludge is periodically discharged to land. Following treatment, the water is piped to twelve distribution reservoirs which feed water through the reticulation network to households and businesses within the district.
	0673 - Discharge	-	2026	To discharge stormwater from a WTP into an unnamed tributary of the Mangorei Stream	
	2055 - Take	-	2021*	Take up to 60,480m ³ /day, at a maximum rate of 740 L/s, from Lake Mangamahoe	
	6643 - Land use	-	2032	To dam water and use, then remove an existing weir in the Mangorei Stream	The weir removal was completed in February 2024. There are consent conditions that still need to be monitored following the works, hence the consent still being listed here.
	5699 – Land use DPA	-	-	To erect, place and maintain a pipebridge over the Mangorei Stream in the Waiwhakaiho catchment	The Taranaki Regional Council has determined that these consents can become permitted activities, as the structure(s) non-compliance is marginal; the environmental effects would be no different if it did comply with Rule 52; and nobody is adversely affected by the non-compliance. NPDC will need to maintain the structure to ensure that it continues to allow fish to pass upstream and downstream at all times, if applicable.
	5700 – Land use DPA	-	-	To disturb the bed of the Mangorei Stream by trenching to erect, place and maintain a pipeline under the Mangorei Stream in the Waiwhakaiho Catchment	
Inglewood	3934 - Take	-	2021*	To take water as a contingency supply and for farm supply purposes from an intake weir in the Ngatoro Stream	Raw water is abstracted via an infiltration gallery in the bed of the Ngatoro Stream approximately 1km upstream of the Inglewood WTP. There is also a contingency take via a weir (with a fish pass) located approximately 3km further
	4509 - Land use	-	2027	To maintain a water supply intake infiltration gallery in and adjacent to the Ngatoro Stream and to maintain a	

Water Supply Scheme	Resource consent	Next Review	Expires	Activity	Process
				pipeline from the gallery to the water treatment station	upstream and is periodically used to backflush the infiltration gallery. This take is also used to provide untreated water for farm supplies for the Dudley Road Rural Users Group.
	4510 - Take	-	2021*	To take up to 4,850m ³ /day at 56 L/s from the Ngatoro Stream	<p>The infiltration gallery consists of two slotted pipes buried under the stream bed. The two gallery pipe legs feed a pipeline that is gravity fed, which supplies the WTP.</p> <p>Flocculent and coagulant is added to the raw water which is then passed through clarifiers and then sand filters. The water is pH buffered (lime) and disinfected (chlorine gas). Treated water is the stored in two reservoirs at the WTP site, and then gravity fed approximately 4km to businesses and households in Inglewood.</p> <p>Clarifier bleed and filter backwash are discharged to a modified reservoir (1,250m³) which discharges to the Ngatoro Stream.</p> <p>Plant internal areas and chemical storage areas are drained to a sump which has a slide valve which blocks off a pipe leading to the nearby roadside drain. Probes are also contained within the sump to monitor the level of its contents. Water in the tank is tested and discharged to stormwater if appropriate. Otherwise, the tank is emptied by a contractor to an appropriate facility.</p>
	5188 – Land use	-	2015*	To maintain an existing weir in the Ngatoro Stream	
	5869 - Discharge	-	2021*	To discharge clarifier bleed and filter backwash supernatant overflow from the Inglewood WTP into the Ngatoro Stream a tributary of the Manganui River, in the Waitara catchment	
Oakura	1277 - Discharge	-	2025	To discharge filter backwash from the Oakura WTP onto and into land in the vicinity of the Wairau Stream	<p>Since April 2004 water has been taken from two secure bores. The water treatment process includes chlorination, pH control and addition of lime. The WTP has been upgraded to install cartridge filtration and UV disinfection, which was completed in 2021.</p> <p>Once treated, the water is piped to two reservoirs at the WTP.</p> <p>Previously water was taken from a weir (with a fish pass) in the Wairau Stream and disinfected with chlorine gas. The surface water-take and backwash discharge consents have been retained for contingency purposes, but have not been exercised since 2006.</p>
	1278 - Take	2025	2031	Take and use water from the Wairau Stream for Oakura water supply purposes	
	5713 - Land use	2025	2031	To use a weir to dam the Wairau Stream for Oakura water supply purposes	
	6114 – Take	-	2020*	To take and use groundwater from two bores for Oakura water supply purposes	
Okato	0026 - Take	2025	2037	To take water from the Mangatete Stream for public water	Water is drawn from an infiltration gallery and weir (with fish

Water Supply Scheme	Resource consent	Next Review	Expires	Activity	Process
				supply purposes	pass) under the riverbank of the Mangatete Stream. The water is gravity fed to the WTP, and is passed through a two stage cartridge filtration, a UV sterilisation unit and then pH buffered (lime) and disinfected (chlorine gas) before being stored in a reservoir at the WTP.
	4805 – Land use	2024	2037	To dam water and use an existing weir in the Mangatete Stream for water supply purposes and to undertake maintenance on the weir.	
Waitara Industrial	0126 - Take	2024	2031	To take and use water from the Waiongana Stream to supply water for industry in Waitara	This supply has not been used since 2008 but has been retained for contingency purposes. Waitara and surrounding areas are currently being supplied from the NPWTP. When the scheme was operational, raw water was diverted from the Waiongana Stream via a weir (with a fish pass) near Mountain Road, approximately 9km south of Waitara. Water was gravity fed through a settling pond system to a reservoir. There was no chemical treatment of the water.
	4816 - Land use	-	2020*	To use and maintain an existing weir, fish pass and associated intake structures on the Waiongana Stream	
Urenui	5989 - Land Use	-	2021*	To modify and maintain an existing earth retention structure (dam) on the Kakapo Stream	The treatment plant has been decommissioned and removed, with the Urenui water supply coming from the NPWTP. The weir was maintained at the request of the landowner and has a fish pass.

* Consent is in the process of being renewed

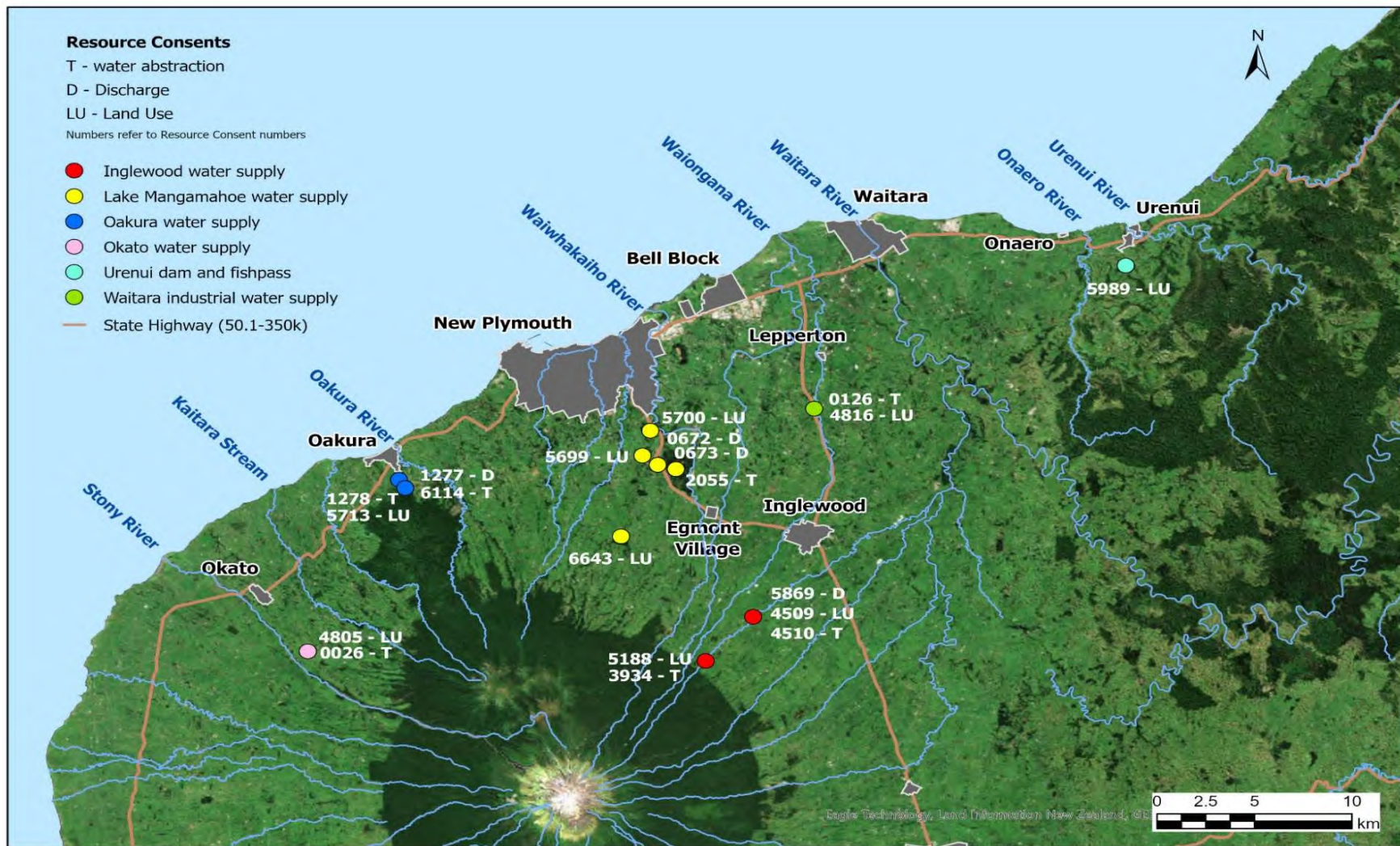


Figure 1 Location of New Plymouth District Council water supply plants and structures

1.4 Monitoring programme

1.4.1 Introduction

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

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

The monitoring programme for NPDC's WTPs consisted of six primary components.

1.4.2 Programme liaison and management

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

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

1.4.3 Site inspections

All of NPDC's WTPs and associated structures were each visited once during the monitoring period. With regard to consents for the abstraction of or discharge to water, the main points of interest were plant processes with potential or actual discharges to receiving watercourses, including contaminated stormwater and process wastewaters. Sources of data being collected by the consent holder were identified and accessed, so that performance in respect of operation, internal monitoring, and supervision could be reviewed by the Council. The neighbourhood was surveyed for environmental effects.

1.4.4 Chemical sampling

A stormwater sample was collected from the NPDC WTP from the southern pond as only this pond was discharging at the time of inspection. Three samples of the discharge (STW002037), upstream (NGT000185) and downstream (NGT000186) sites was conducted from Inglewood WTP.

1.4.5 Review of supplied flow and discharge data

NPDC provided Council with data on abstraction rates, stream flow, discharge rates and discharge quality which was reviewed by Council staff.

1.4.6 Fish survey

The Council undertakes fish surveys above and below weirs where consent conditions require the provision of fish passage. During the monitoring period, a fish survey was undertaken in the Mangatete Stream.

1.4.7 Leak detection and water conservation

A water conservation and leak detection report is required by the Oākura water take consent held by NPDC. This is reviewed to ensure that NPDC is using the water efficiently, detecting and minimising leaks and enforcing conservation measures to minimise water use in times of high demand.

2. Results

2.1 Programme liaison

Lake Mangamahoe fish screens

Since 2017 NPDC has been liaising with the Council in regard to their three water intake screens in Lake Mangamahoe for the New Plymouth water supply. These screens cannot be manually inspected and NPDC provided information about the type of screens that were in place. It was noted at the time that these screens had screen sizes of 6mm, which is greater than best practice guideline of 3mm. NPDC had also observed fish in the water treatment plant raw water tanks, which suggested that these fish had come through the screens. NPDC acknowledged that the existing screens were not compliant with current best practice. NPDC put forward a proposal to allow 24 months to upgrade the intake screens, with two in the lake and one in the 'river' inlet, with work to be completed by June 2019, which Council accepted.

Ongoing discussions through to August 2018 saw NPDC apply for a variation of their consent to extend the timeframe for the installation of the fish screens to June 2020. This variation was granted in November 2018. In May 2019 NPDC advised that they were unlikely to meet this timeframe as a single project, as it would be out of step with an existing wider strategic plan to upgrade the infrastructure at the lake. As the consent was due to expire in June 2021, it was recommended that NPDC address these issues in their consent application. The application was to provide a timeline of when works would be expected to be completed. The Council also suggested that NPDC investigate the actual effect of the current screens and undertake an investigation into mitigation measures to be outlined in the consent application.

The consent renewal was received in February 2021 and provided a new date of June 2024 for when the screens would be installed. However, in August 2022 NPDC approached the Council about this timeframe and advised that it was likely that the two screens for the lake could be completed by June 2024, but the one in the 'river' would take some more time, as more work was required to determine the best approach. Further meetings were held between NPDC and the Council, and it was decided that as the consent process had potential to take some time to complete, that an abatement notice would be issued to acknowledge the delay in the works being completed.

A revised application was received in December 2022 with updated installation dates of the fish screens for the three intakes. The two intakes for the lake are expected to be completed by June 2024 and the 'river' intake by June 2026. This application also provided background detail of the process to date.

Once the new consent is granted, this will supersede the abatement notice, as it will state specified dates for when the intake screens will need to be fitted in by.

2.2 Site Inspections

An annual inspection of NPDC's water treatment activities were undertaken on 28 March 2024 for NPDC Water Treatment Plant site and 21 May 2024 for the remainder of the sites. The inspections focussed on instream structures, discharges, and water abstraction measuring equipment.

2.2.1 New Plymouth

The weir at the Mangorei stream was not inspected as the access was difficult during wet weather conditions. The structure had been removed and NPDC requested direction from the Council over consent closure requirements.

At Lake Mangamahoe intake, the water appeared clear and uncoloured and there was a slight, muddy odour. No sheen or foam was present and a large quantity of submerged macrophytes was visible. The first intake structure appeared to be in good condition and the stepper screen was activated to remove water weeds from the water prior to it being pumped away. The second intake operates in exactly the same manner as the first. Raw water intake was 1,511m³/hour at the time of the inspection. This was consistent with telemetered data received by Council.

Water quality readings were taken from the raw water analyser at the WTP. The following was found to be occurring: pH 7.6, water temperature 12.4°C, turbidity 1.97NTU, conductivity 156µS/cm. Water quality measurements were taken from the contact pond. A sample of the stormwater was collected on 24 May 2024. The sample was from the south pond at the WTP as it was the only one discharging at the time of sampling.

2.2.2 Inglewood

The contingency/farm supply intake weir on the Ngatoro Stream at the top of Dudley Road was inspected with the water flowing freely with no damage to the structure. The fish pass was obstructed by a large boulder held in place by a metal lip. This was brought to the attention of the NPDC operator. The Ngatoro Stream appeared clear and uncoloured. The flow was low and steady, and no sheen, odour or foam was apparent.

At the main intake, the flow was moderate and uncoloured, with an abstraction of 79.8m³/hour. Raw water quality measurements were pH 7.5 and conductivity 90.8µS/cm. Samples were taken of the discharge on 28 March 2024.

2.2.3 Oakura

At the time of the inspection, Bore 100 was operating and abstracting at 34.37m³/hour. Bore 250 was not operational and is only used when Bore 100 is not operating. The measurements from the raw water analyser were as follows: pH 7.56 and turbidity 0.033NTU. Reservoirs 1 and 2 were at 76.7% and 81.1% capacity respectively.

The weir on the Wairau Stream was inspected. The weir was partially blocked by fallen trees and debris. NPDC has since cleared the obstruction. A residual flow was maintained at the fish pass. The water was clear and uncoloured.

2.2.4 Okato

The Mangatete Stream appeared semi turbid to turbid and was green-brown in colour due to a heavy rainfall prior to the inspection. No odour, foam or sheen was noted. The Mangatete weir appeared to be in sound order as it had recently been repaired. The stream flowed freely over the structure. The flow was moderate in height. A good level of residual flow was maintained over the fish pass. A small rock partially blocked the structure. This should be removed if practicable as it may act as an obstruction which initiates the accumulation of material at the fish pass. The rate of abstraction at the time of the inspection was 20.15m³/hour. Water quality measurements at the time of the inspection were as follows: pH 6.59 and conductivity 120µS/cm.

2.2.5 Waitara industrial intake weir (contingency take site)

This system is for contingency purposes only and has not been in operation since 2008. The river was clear and uncoloured, with adequate flow down the fish pass and with water freely flowing over the weir. There was a small accumulation of debris including tree branches in certain areas. The fish passage was in good

condition, there were no apparent obstructions which might impede the movement of fish. The intake pipes have been sealed with concrete. Old unused ponds were stagnant with duck weed covering majority of water surface. A warning sign was in place to alert the general public of the dangers of the ponds.

2.3 Discharge and receiving water monitoring

2.3.1 Inglewood WTP discharge monitoring

NPDC undertook self-monitoring of the backwash discharge at the Inglewood WTP as per Consent 5869-2. The results are given in Table 2. All results complied with consent conditions.

Table 2 NPDC Inglewood backwash self-monitoring

Date	Suspended solids g/m ³	pH	Free available chlorine g/m ³
12 Jun 2024 (Wed)	9	7.56	0.04
8 May 2024 (Wed)	4	7.24	ND*
3 Apr 2024 (Wed)	4	7.12	ND*
19 Mar 2024 (Tue)	7	7.2	ND*
14 Feb 2024 (Wed)	3	6.98	ND*
6 Dec 2023 (Wed)	3	7.11	ND*
8 Nov 2023 (Wed)	2	7.26	0.04
6 Oct 2023 (Fri)	2	7.15	ND*
21 Sep 2023 (Thu)	5	7.13	ND*
3 Aug 2023 (Thu)	ND*	7.15	ND*
28 Jul 2023 (Fri)	11	6.99	ND*
Consent limits	20	6 - 9	0.1

ND – No data

A discharge sample, as well as samples upstream and downstream of the discharge point were taken on 28 March 2024 by Council staff, with results shown in Table 3 and the locations of these shown in Figure 2. The results complied with consented limits.

Table 3 Results of Inglewood WTP discharge sampling 28 March 2024

Site Code	Temp (°C)	EC (µS/cm)	pH (pH)	Suspended solids (g/m ³)	Turbidity (FNU)
NGT000185	12.1	92	7.0	<3	0.83
NGT000186	12.1	93	7.5	<3	0.56
STW002037	13.4	95	6.6	-	8.4
Consent limits	-	-	6 - 9	20	-



Figure 2 Sampling locations for Inglewood WTP discharge

2.3.2 New Plymouth WTP discharge monitoring

The New Plymouth Water Treatment Plant (NPWTP) backwash ponds did not discharge during the 2023/24 monitoring period, as they recycled the water back into the treatment plant, therefore no water quality sampling was undertaken as per Consent 0672-3.

A stormwater discharge sample, as per Consent 0673-3, was taken from the NPWTP (STW001127) on 21 May 2024 and these results are given in Table 4.

Table 4 Results of NPWTP stormwater sampling 21 May 2024

Parameter	Unit	Result	Consent Limit
Chlorine	g/m ³	N/A	0.2
pH	-	7.5	6.0-90
Suspended solids	g/m ³	7	100
Temperature	°C	12.4	
Total Alkalinity	g/m ³ as CaCO ₃	19.3	
Turbidity	FNU	2.3	

N/a – not measured

The results complied with consented limits.

2.4 Abstraction and stream flow data

2.4.1 Abstraction data

As a condition of their resource consents to abstract water, NPDC are required to record the daily volumes abstracted at each site. This data is to be made available to the Council on request. The data was assessed against either daily volumes and/or instantaneous take rates depending on consent conditions. A summary of compliance in regard to abstraction data is given in Table 5.

Table 5 Summary of compliance with abstraction data requirements and abstraction limits

Site	Consent	Maximum rate (consented rate) L/s	Maximum volume (consented volume) m ³ day
Okato	0026-4	9.99 (13.8)	656 (1,000)
New Plymouth (Lake Mangamahoe)	2055-3	630 (740)	39,487 (60,480)
Inglewood - farmer and backwash take	3934-3	4.65 (5 rural) 111 (75 – total)	229 (400) 691 (5000 - contingency)
Inglewood - main take	4510-3	34.6 (56)	2,551 (4,850)
Oakura (groundwater)	6114-1 Bore 100	15.91 (35)	1,552 (3,715)
	6114-1 Bore 250	18.90 (35)	

A complete set of abstraction data for each site was provided via telemetry and there was a high level of compliance with daily volumes and instantaneous abstraction rates. However, there were two instances where the abstraction rate for the contingency take exceeded the 75L/s consented limit due to the back flushing process. In reality the rate was breached only 0.025% of the monitoring year, so it is considered a negligible non-compliance, with no more than minor environmental effects. NPDC have reviewed their procedures and found that all the required information and steps were in place however noted that it can be difficult to be applied when the task is undertaken by one person. NPDC will look to ensure this does not occur going forward.

There was no abstraction from the Waiongana Stream in relation to the Waitara industrial supply (Consent 0126-5) during the 2023/24 monitoring period (used for contingency only).

2.4.2 Stream flow data

2.4.2.1 Okato Water Supply

Consent 0026-4, to take water from the Mangatete Stream for public water supply purposes, includes the following two conditions:

Condition 10

When the mean daily flow in the Mangatete Stream at the Saunders Road bridge is less than 180L/s for a period of seven or more consecutive days, the consent holder shall enforce 'level 1' water restrictions. These restrictions may only be lifted when the mean daily flow is greater than 180L/s for a period of seven or more consecutive days. 'Level 1' restrictions include:

- a. a total ban on using sprinklers, irrigation systems and unattended hoses; and*
- b. partial restriction on using handheld hoses (using the odds and evens street address system).*

Condition 11

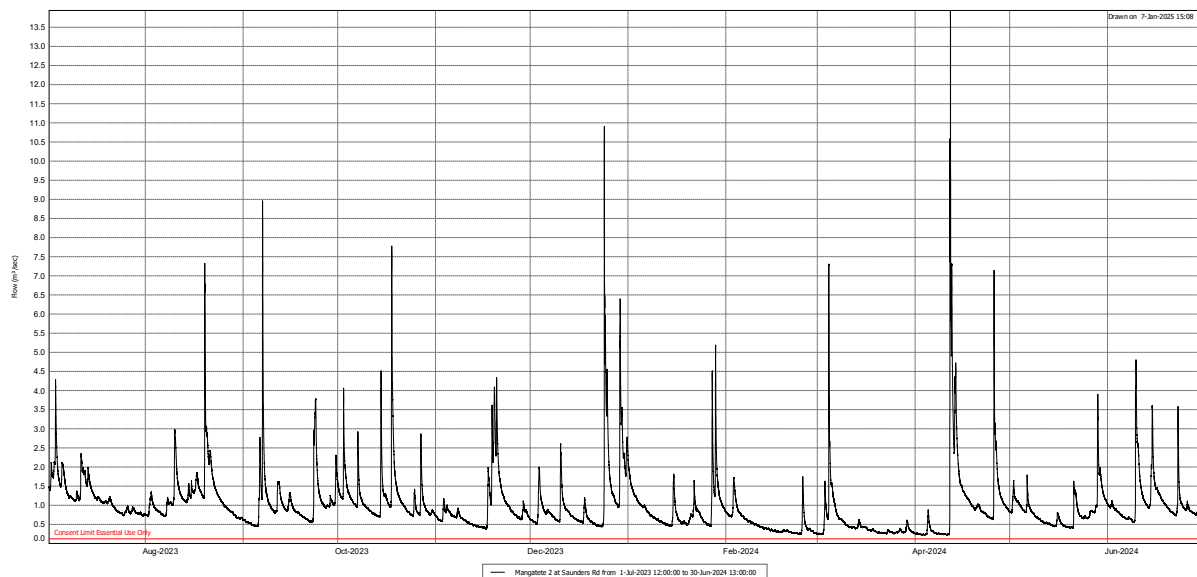
When the mean daily flow in the Mangatete Stream at the Saunders Road bridge is less than 120L/s for a period of seven or more consecutive days, the consent holder shall enforce 'level 2' water restrictions. These

restrictions may only be lifted when the mean daily flow is greater than 120L/s for a period of seven or more days. 'Level 2' restrictions include a total ban on using sprinklers, irrigation systems and handheld hoses.

NPDC monitor the stage of the Mangatete Stream at the Saunders Road Bridge and from this the stream flow is calculated from a rating that the Council provided. The Council conducts a minimum of three gaugings per year to maintain the rating curve.

During the 2023/24 monitoring period rainfall was higher than normal, which meant river flows were also higher, with the Mangatete stream minimum flow for 2023/24 being 234L/s. Therefore, there was no requirement for NPDC to put water restrictions in place.

However, as of the summer of 2016, NPDC has chosen to automatically implement water restrictions during the summer months (1 January to 31 March) to ensure maximum water conservation during the dry periods to ensure compliance with these conditions.



Note: restrictions are required to be implemented when flow has been below the relevant level for seven consecutive days

Figure 3 Flow in the Mangatete Stream at Saunders Road during 2023/24

2.4.2.2 Inglewood Water Supply

Consent 3934-3, to take water from the Ngatoro Stream for farm supply purposes and as a contingency supply, includes the following condition:

Condition 9

When the flow in the Ngatoro Stream at the 'Bushline' gauging site is less than 134 litres per second the taking of water shall be restricted to the minimum amount required to maintain the health of people and animals (i.e. garden watering and other non-essential uses are prohibited).

There is no water level and/or flow monitoring at the 'Bushline' however, the Council monitors water level and flow of the Ngatoro Stream at SH3. By using a correlation between these two sites, a calculated flow can be estimated for the 'Bushline'. Based on this correlation, as shown in Figure 4 the flow did not fall below the 134L/s limit, so no restrictions were required to be put in place.

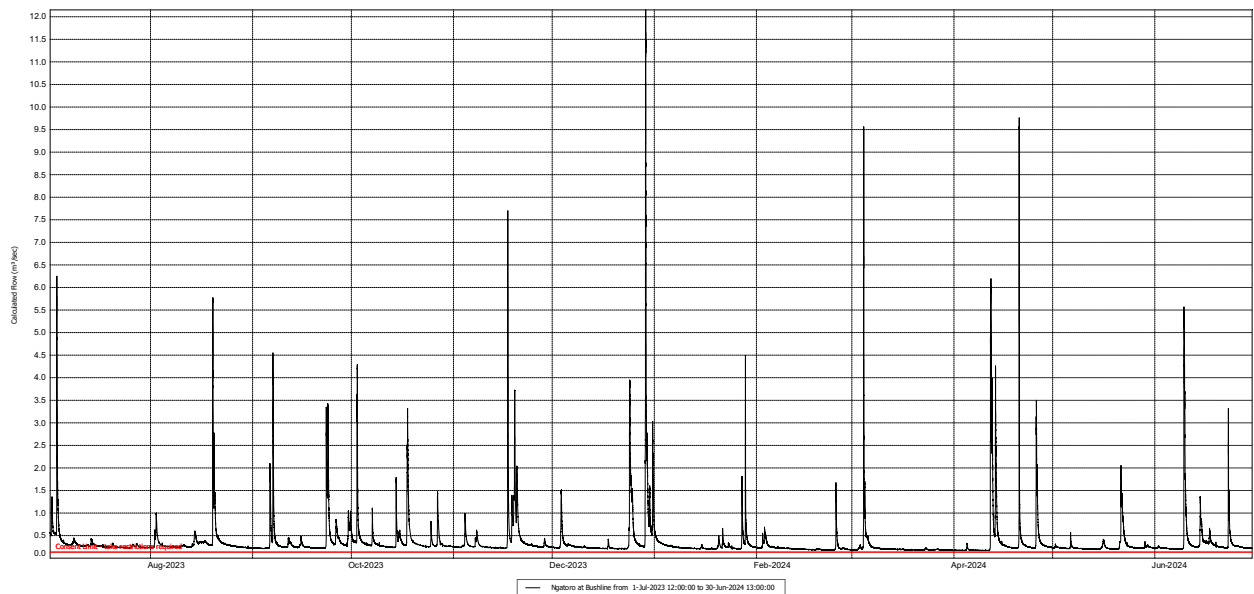


Figure 4 Calculated flow for Ngatoro Stream at Bushline during 2023/24

2.5 Fish surveys

During the period under review spotlighting fish surveys were undertaken in the Mangatete Stream in the Kaihihi Catchment (in relation to the Okato water intake weir).

2.5.1 Mangatete Stream (Okato Water Supply)

A standardised spotlighting survey was performed on 17 and 18 January 2024 with two sites 100m upstream and 150m downstream of the Mangatete Stream intake weir (Photo 1) to assess the effectiveness of the fish pass. An additional site (SoE) located 4.5km upstream of the weir on Carrington Road was also surveyed under a different monitoring programme (State of the Environment Monitoring - Freshwater Fish). There have been five previous surveys conducted in the Mangatētē Stream, both upstream and downstream of the weir, while the Department of Conservation has undertaken some works in the headwaters. The surveys employed one of two methods – spotlighting and electric fishing.

A good species richness was recorded during the current survey, with seven species recorded in total. Fish diversity was higher downstream (0.099 fish per square meter) of the weir, compared to that recorded upstream (0.058 fish per square meter). It's likely to reflect the gap of the two sample areas (696m² downstream against 1260m² upstream), even though the abundance in site 1 was slightly higher than site 2. The upstream SoE site recorded an abundance of 19 individuals over 1196m², which gives a density of 0.017 fish per square meter.

Site 1 above the intake weir held the highest numbers and species abundance of the survey. Five fish species were recorded: longfin eel, redfin bully, brown trout, īnanga and kōura. This site recorded the highest species count of the three surveys. Site 2 below the intake weir had a slightly lower total abundance and lower species abundance of three species: longfin eel, redfin bully and kōura. The SoE site had the lowest number of individuals recorded but had a species abundance of four: longfin eel, redfin bully, banded kōkopu and giant kōkopu.

The presence of īnanga at site 1 above the intake weir is a significant finding. This species has not been previously recorded in the Mangatētē stream however, one īnanga record within the Kaihihi River does exist within the NZFFD from a 2003 DOC spotlight survey. īnanga make their way downstream to estuaries, to

reproduce and die. Īnanga are considered to have a poorer climbing ability than other kōkopu species, so its presence above the weir is an encouraging sign for fish passage.

This survey indicated that the fish pass on the weir appears to operate effectively to an extent, and therefore compliance with special condition 14 of resource Consent 0026 has been achieved. With regard to rule 52 of the *Regional Freshwater Plan* for Taranaki, it appears that there is no restriction of fish passage. Therefore, it is considered that the weir meets this condition.



Photo 1 The Mangatete Stream, showing sampling sites

2.6 Leak detection and water conservation

Special condition 11 of Consent 6114-2 to take and use groundwater for the Oākura water supply requires;

The permit holder shall provide an Annual Monitoring Report prior to September every year to Taranaki Regional Council's Science Manager, that details:

- a) Compliance with the conditions of this water permit;*
- b) Water conservation measures planned or undertaken during the reporting period;*
- c) Source water quality monitoring results;*
- d) The detection and minimisation of leaks within the supply area;*
- e) Justifications for water losses over 25%; and*
- f) For losses above 25%, an Action Plan shall be included that details works to be undertaken to reduce water losses in the future.*

Water conservation measures

Water conservation measures consist of the imposition of water restrictions between 1 January and 31 March each year. The water restrictions are considered to be level 1 and comprise of limiting the outdoor use of water to attended handheld hoses on an "odds and evens" basis. The use of automatic irrigation systems, sprinklers or unattended hoses is prohibited. These restrictions apply to all consumers except where outdoor water use is an integral and necessary part of the consumers business e.g. the prohibition of automatic irrigation does not apply to a horticulture business cultivating plants for sale however, it would apply to a rest home with automatic irrigation of gardens.

Leak detection and minimisation

Leak detection and minimisation is currently undertaken through customer reports, periodic proactive acoustic leak detection surveys and through observation of flow trends and minimum night flows.

At present there are a limited number of customer water meters in Ōakura. Most connections are unmetered however, NPDC has a universal water metering programme, and it is anticipated that Ōakura will be fully metered by the end of 2025.

If a customer reports a leak this is logged into the work management system and is passed to the maintenance contractor for repair

Proactive acoustic leak surveys are undertaken, with a focus typically being on water supply zones with high night flows. There are 17 water supply zones across all of NPDC water supplies and each zone is typically surveyed at least once each 5 years. The acoustic survey identifies noise in the reticulation which indicates a leak. All identified leaks are logged and investigated. Where a leak is on a customer property the customer is informed of the potential leak.

Where a customer has an excessively high recorded metered consumption indicative of a leak NPDC will advise the customer, and if the leak is repaired promptly and evidence is provided to NPDC then half of the excess consumption charges will be refunded.

Water losses

As the network is not fully metered, the magnitude of losses has been estimated. NPDC has calculated a benchloss report for the 12 months ending 30 June 2024 and it indicates that estimated losses are 25.9% +/- 22.8%. They also took a snapshot of minimum nighttime flow calculation, which suggested 13.5m³/hrs (17.5%) losses for the week of 19 August 2024.

Both methods of assessing losses suggests that water losses in Ōakura are higher than expected. However, the large number of unmetered connections introduces a high level of uncertainty. Universal water metering will reduce this uncertainty and will allow a more accurate estimate of losses to be determined. At this stage the Universal Water Meter installation is scheduled for end of 2025 meaning that increased certainty will not be known until July 2026. If losses remain high an action plan will be put in place to identify and repair public side leaks.

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 NPDC. 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 2023/24 period, the Council was not required to undertake significant additional investigations and interventions, or record incidents, in association with NPDC's conditions in resource consents or provisions in Regional Plans.

3. Discussion

3.1 Discussion of site performance

During the monitoring period the NPDC water treatment plants were well run and organised. Abstraction data was provided to Council in a timely manner and the abstraction volumes and rates were largely in compliance with consent conditions.

Self-monitoring of the Inglewood WTP backwash found the results to be in compliance with consent limits. Suspended solid levels have occasionally exceeded in past monitoring years and measures implemented by NPDC in the 2021/22 year to prevent this from continuing to occur, appear to be successful.

Stream flows were higher than normal for the 2023/24 monitoring year, therefore there was no requirement for water restrictions. However, NPDC automatically enforce water restrictions from 1 January to 31 March, to ensure maximum water conservation during the drier period.

Ongoing liaison with NPDC regarding the fish screens on the three water intakes for Lake Mangamahoe resulted in enforcement action being taken in September 2022, this resulted in NPDC re-submitting their consent application and submitting new installation dates for the three water intakes. The abatement notice will be superseded once the consent is granted.

3.2 Environmental effects of exercise of consents

Overall, there were no significant adverse impacts on the environment occurring from the exercise of resource consents held by NPDC in relation to their WTPs and water supply schemes. This was supported by inspections of abstraction and discharge points, and supply weirs. Fish surveys undertaken in the Mangatete Stream (in relation to the Okato water supply) indicated that the presence of the weir was unlikely to be having any significant adverse effects on fish passage.

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 6-23.

3.3.1 New Plymouth WTP

Table 6 Summary of performance for Consent 0672-3

Purpose: To discharge wastewater from a water treatment plant into an unnamed tributary of the Mangorei Stream in the Waiwhakaiho catchment		
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 of consent in accordance with application	Inspection and liaison with consent holder	Yes
3. Limits on pH, suspend solids and free chlorine in the discharge	No sampling undertaken, as all water recycled through plant	Yes
4. Discharge not to cause certain effects in the receiving waters	Inspection – no discharge	Yes
5. Lapse provision	N/A	N/A
6. Optional review provision	No further provision for review prior to expiry	N/A

Purpose: To discharge wastewater from a water treatment plant into an unnamed tributary of the Mangorei Stream in the Waiwhakaiho catchment		
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

N/A = not applicable

Table 7 Summary of performance for Consent 0673-3

Purpose: To discharge stormwater from a water treatment plant into an unnamed tributary of the Mangorei Stream in the Waiwhakaiho catchment		
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 of consent in accordance with application	Inspection and liaison with consent holder	Yes
3. Stormwater catchment area not to exceed 2ha	Inspection and review of Management Plan	Yes
4. Requirement for a Stormwater Management Plan	WTP Emergency Management Plan – updated March 2022	Yes
5. Requirement for a Contingency Plan	WTP Emergency Management Plan – updated March 2022	Yes
6. Hazardous substance storage areas to be bunded with drainage to sumps	Inspection	Yes
7. Limits on pH, suspended solids and free chlorine in the discharge	Sampling and inspection	Yes
8. Discharge not to cause certain effects in the receiving waters	Inspection	Yes
9. Lapse provision	Not applicable	N/A
10. Optional review provision	No further provision 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

N/A = not applicable

Table 8 Summary of performance for Consent 2055-3

Purpose: To take up to 60,480m ³ / day at a maximum rate of 740L/ sec of water from Lake Mangamahoe in the Waiwhakaiho Catchment for municipal water supply purposes		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Exercise of consent in accordance with application	Inspection and liaison with consent holder	Yes
2. Adoption of best practicable option	Inspection and liaison with consent holder	Yes
3. Screening of intake structures to be completed by June 2020	Inspection	No
4. Install and maintain water meter and datalogger. Records sent to Council	Inspection and data review	Yes
5. Optional review provision	Expired – S. 124 Protected	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		Improvement required
Overall assessment of administrative performance in respect of this consent		High

N/A = not applicable

Table 9 Summary of performance for Consent 6643-2

Purpose: To erect, place and maintain a weir in the Mangorei Stream		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Adoption of best practicable option	Liaison with consent holder	Yes
2. Exercise of consent in accordance with application	Liaison with consent holder	Yes
3. Review provision	Review not required	N/A
4. Annual inspection by consent holder and report to Council	Annual inspection was undertaken with Council staff, report not required	Yes
5. Notification of Council prior to maintenance works	No maintenance in monitoring year	N/A
6. Adoption of best practicable option	No maintenance in monitoring year	N/A
7. No maintenance to occur between 1 May to 31 October	No maintenance in monitoring year	N/A
8. Lapse provision	N/A	N/A
9. Optional review provision	Expired – S. 124 Protected	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

N/A = not applicable

3.3.2 Inglewood WTP

Table 10 Summary of performance for Consent 3934-3

Purpose: To take water as a contingency supply and for farm supply purposes from an intake in the Ngatoro Stream		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Limit on abstraction from Ngatoro Stream (for contingency take, gallery backwash and Dudley Road User Group)	Data review	99.9%
2. Limit on the combined abstraction from Ngatoro Stream (including main abstraction from Consent 4510)	Data review	99.9%
3. Notification of use of contingency take	Liaison with consent holder	Yes
4. Install and maintain water meter and datalogger	Inspection	Yes
5. Certification of water meter installation	Verified as per Regulations	Yes
6. Notification of equipment failure	Liaison with consent holder	N/A
7. Access to water measuring device	Inspection	Yes
8. Recording and transmission of data	Data received	Yes
9. Restriction on abstraction during low flow	Restrictions imposed during periods of low flow	N/A
10. Adoption of best practicable option	Inspection	Yes
11. Optional review provision	Expired – S. 124 Protected	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

N/A = not applicable

Table 11 Summary of performance for Consent 4509-2

Purpose: To maintain a water supply intake infiltration gallery in and adjacent to the Ngatoro Stream and to maintain a pipeline from the gallery to the water treatment station for Inglewood urban water supply purposes		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Any works to be undertaken between 1 November and 30 April only	Liaison with consent holder – works undertaken in early November	Yes
2. Notification to Council 48 hrs prior to maintenance works	Liaison with consent holder – works notification received 27 October 2022	Yes
3. Minimise areas of disturbance	Liaison with consent holder	Yes
4. Undertake works in accordance with guidelines	Liaison with consent holder	Yes
5. Structure to be removed and area reinstated when no longer required	Not applicable – structure in use	N/A
6. Structure not to obstruct fish passage	Inspection	Yes
7. Lapse condition	Not applicable	N/A
8. Optional 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

N/A = not applicable

Table 12 Summary of performance for Consent 4510-2

Purpose: To take and use water from the Ngatoro Stream for Inglewood urban water supply purposes		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Abstraction not to exceed 4,850m ³ /day or 56L/s	Data review	Yes
2. Install and maintain water meter and datalogger	Inspection	Yes
3. Emergency take and notification	Liaison with consent holder	Yes
4. Provision of data to Council	Data received	Yes
5. Efficient and conservative use of water	Liaison with consent holder	Yes
6. Screening of intake structure to avoid entrapment of fish	Inspection	Yes
7. Lapse condition	Not applicable	N/A
8. Optional review provision	Expired – S. 124 Protected	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

N/A = not applicable

Table 13 Summary of performance for Consent 5188-1

Purpose: To license and maintain an existing weir structure in the Ngatoro Stream		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Structure not to obstruct fish passage	Inspection, triennial fish survey	Partial – suspected restrictions to fish passage
2. Optional review provision	Expired – S. 124 Protected	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

N/A = not applicable

Table 14 Summary of performance for Consent 5869-2

Purpose: To discharge clarifier bleed and filter backwash supernatant overflow from the Inglewood WTP into the Ngatoro Stream		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Limit on discharge rate and duration	Data review	Yes
2. Adoption of best practicable option	Inspection	Yes
3. Prepare and adhere to management plan	Inspection and review of Management Plan – updated March 2022	Yes
4. Discharge not to cause certain effects in the receiving waters	Inspection	Yes
5. Limits on pH, suspended solids and free chlorine in the discharge	Consent holder self-monitoring	Yes.
6. Notification of changes at site	Inspection and liaison with consent holder	Yes
7. Optional review provision	Expired – S. 124 Protected	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

N/A = not applicable

3.3.3 Oākura WTP

Table 15 Summary of performance for Consent 1277-3

Purpose: To discharge filter backwash from the Oakura WTP onto and into land in the vicinity of the Wairau Stream (contingency)		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Adoption of best practicable option	Not assessed this period - consent not exercised	N/A
2. Exercise of consent in accordance with application	Not assessed this period - consent not exercised	N/A
3. Limits on pH, suspended solids and free chlorine in the discharge	Not assessed this period - consent not exercised	N/A
4. Discharge not to cause certain effects in the receiving waters	Not assessed this period - consent not exercised	N/A
5. Optional review provision	No further provision for review prior to expiry	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

N/A = not applicable

Table 16 Summary of performance for Consent 1278-4

Purpose: To take and use water from the Wairau Stream for Oakura water supply purposes		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Abstraction as contingency measure only	No abstraction in monitoring year	N/A
2. Volume not to exceed 1,300m ³ or 15L/s	No abstraction in monitoring year	N/A
3. Install and maintain water meter and datalogger and records sent to Council	No abstraction in monitoring year	N/A
4. Meter installed, maintained and certified	No abstraction in monitoring year	N/A
5. Council to be notified if measuring and recording equipment breaks down	Liaison with consent holder	N/A
6. Water meter and data logger to be accessible to Council staff	No abstraction in monitoring year	N/A

Purpose: To take and use water from the Wairau Stream for Oakura water supply purposes		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
7. Water records in suitable format	No abstraction in monitoring year	N/A
8. Payment of \$1,300 required when consent exercised	No abstraction in monitoring year	N/A
9. Adoption of best practicable option	No abstraction in monitoring year	N/A
10. Leak detection report	No abstraction in monitoring year	N/A
11. Optional review provision	Next option for review in June 2025	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

N/A = not applicable

Table 17 Summary of performance for Consent 5713-2

Purpose: To use a weir to dam the Wairau Stream for Oakura water supply purposes		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Maintenance of weir and fish pass in accordance with application	Inspection	Yes
2. Screening of intake structure to avoid entrapment of fish	Inspection	Yes
3. Structure not to obstruct fish passage	Inspection	Yes
4. Optional review provision	Next option for review in 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

N/A = not applicable

Table 18 Summary of performance for Consent 6114-2

Purpose: To take and use groundwater from two bores for Oakura water supply purposes		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Exercise of consent in accordance with application	Inspection and liaison with consent holder	Yes
2. Adoption of best practicable option	Inspection and liaison with consent holder	Yes
3. Limits on volume and rate of abstraction	Data review	Yes
4. Abstraction not to have adverse effects on other known groundwater and surface water takes	Liaison with consent holder	Yes
5. Recording of abstraction rates and levels and make records available	Data received	Yes
6. Optional review provision	Expired – S. 124 Protected	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

N/A = not applicable

3.3.4 Ōkato WTP

Table 19 Summary of performance for Consent 0026-4

Purpose: To take water from the Mangatete Stream for public water supply purposes		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Rate of take not to exceed 13.8L/s, or a volume of 1,000m ³ /day	Data review	Yes
2. Rate of take may increase to 1,200m ³ /24 hours due to emergency	Data review – no requirement to increase take	Yes
3. Notification of excess water take, including provision of a report with explanation	Data review – no excess used in 2022-2023	Yes
4. Installation and maintenance of water measuring equipment	Inspection	Yes
5. Certification of water meter installation	Verified as per Regulations	Yes
6. Notification of equipment failure	Liaison with consent holder	Yes
7. Water level recorded	Data review	Yes
8. Water records in suitable format	Data provided	Yes
9. Water level and abstraction data to be supplied to Council within two hours of being recorded	Data provided	Yes
10. Implementation of level 1 water restrictions for flows less than 180L/s over seven days	Restrictions put in place by consent holder	Yes
11. Implementation of level 2 water restrictions when flow is less than 120L/s over seven days	Not required, minimum flow 234 L/s	N/A
12. Report to be provided detailing level one and two water restrictions	Received January 2021 and December 2023	Yes
13. Adoption of best practicable option	Inspection and liaison with consent holder	Yes
14. Screening of intake structure to avoid entrapment of fish	Inspection	Yes
15. Financial contribution of two annual payments of \$10,000 to be used for environmental enhancement	First payment received July 2021	Yes
16. Optional review provision	Next option for review in 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

N/A = not applicable

Table 20 Summary of performance for Consent 4805-3.0

Purpose: To dam water and use an existing weir in the Mangatete Stream for water supply purposes and to undertake maintenance on the weir		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Exercise of consent in accordance with application	Inspection and liaison with consent holder	Yes
2. Repair any scour or erosion caused by weir	Inspection	Yes
3. Structure not to obstruct fish passage	Inspection	Yes
4. Maintenance works not to obstruct fish passage	Inspection and liaison with consent holder – work completed	N/A
5. Maintenance works to be completed by May 2020	Liaison with consent holder – work completed	N/A

Purpose: To dam water and use an existing weir in the Mangatete Stream for water supply purposes and to undertake maintenance on the weir		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
6. Notification of works	Liaison with consent holder - no works undertaken during monitoring period	N/A
7. Minimise areas of disturbance	Liaison with consent holder - no works undertaken during monitoring period	N/A
8. Minimise effects to receiving waters	Liaison with consent holder - no works undertaken during monitoring period	N/A
9. Optional 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

N/A = not applicable

3.3.5 Waitara industrial supply

Table 21 Summary of performance for Consent 0126-5

Purpose: To take and use water from the Waiongana Stream to supply water for industry in Waitara		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Rate of take to not exceed 58L/s	Consent not exercised	N/A
2. Notification prior to exercise of consent	Consent not exercised	N/A
3. Installation of data logger and water meter	To be installed prior to exercise of consent	N/A
4. Certification of water meter installation	To be verified prior to exercise of consent	N/A
5. Notification of equipment failure	Consent not exercised	N/A
6. Water meter and data logger to be accessible to Council staff	To be installed prior to exercise of consent	N/A
7. Records in suitable format and provision of data	Consent not exercised	N/A
8. Restrictions on abstraction due to low flow	Consent not exercised	N/A
9. Cessation of abstraction if river flow <402L/s	Consent not exercised	N/A
10. Adoption of best practicable option	Inspection	N/A
11. Screening of intake structure to avoid entrapment of fish	Consent not exercised	N/A
12. Financial contribution if consent exercised	None required as consent not exercised	N/A
13. Report required if consent exercised	Due 30 April 2024, if consent exercised	N/A
14. Lapse provision	Lapse in 2031	N/A
15. Optional review provision	Next option for review in June 2024	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

N/A = not applicable

Table 22 Summary of performance for Consent 4816-2

Purpose: To use and maintain an existing weir, fish pass and associated intake structures on the Waiongana Stream for Waitara Industrial water supply purposes		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Notification of Council prior to maintenance works	No maintenance in monitoring year	N/A
2. Adoption of best practicable option	Inspection	Yes
3. Minimising of area and volume of river disturbance during maintenance and reinstatement of disturbed areas	No maintenance in monitoring year	N/A
4. Maintenance work not to be conducted between 1 May and 31 October unless waived in writing	No maintenance in monitoring year	N/A
5. Maintenance of structures to ensure compliance with consent conditions	Inspection	Yes
6. Structure not to restrict fish passage	Inspection and triennial fish survey	Yes
7. Structure to be removed when no longer required and area to be reinstated	Retained for contingency supply- abstraction consent still in place	N/A
8. Optional review provision	Expired – S. 124 Protected	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

N/A = not applicable

3.3.6 Urenui dam

Table 23 Summary of performance for Consent 5989-1

Purpose: To modify and maintain an existing earth retention structure (dam) on the Kakapo Stream		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Notification of Council prior to maintenance works	Liaison with consent holder	N/A
2. Structure not to obstruct fish passage	Not monitored during period under review	N/A
3. Adoption of best practicable option	No maintenance in monitoring year	N/A
4. Area and volume of riverbed disturbance minimised	No maintenance in monitoring year	N/A
5. Maintenance of structure to ensure compliance with consent conditions	No maintenance in monitoring year	N/A
6. Removal of structure when no longer required	Not applicable - weir held as contingency	N/A
7. Optional review provision	Expired – S. 124 Protected	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

N/A = not applicable

During the year, NPDC demonstrated a good level of environmental and high level of administrative performance with the resource consents as defined in Appendix II.

3.4 Recommendations from the 2022/23 Annual Report

In the 2022/23 Annual Report, it was recommended:

1. THAT in the first instance, monitoring of consented activities associated with New Plymouth District Council's WTPs and water supply schemes in the 2023/24 year continue at the same level as in 2022/23.
2. THAT eDNA analysis may be undertaken during future fish surveys.
3. THAT should there be issues with environmental or administrative performance in 2023/24, monitoring may be adjusted to reflect any additional investigation or intervention as found necessary.

3.5 Alterations to monitoring programmes for 2024/25

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

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

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

No planned changes have been made to the 2024/25 monitoring programme. In addition to the current fish survey monitoring schedule, it is recommended that eDNA analysis be undertaken where available during any future fish surveys to determine the presence or absence of species.

It should be noted that the proposed programme represents a reasonable and risk-based level of monitoring for the site(s) in question. The Council reserves the right to subsequently adjust the programme from that initially prepared, should the need arise if potential or actual non-compliance is determined at any time during 2024/25.

4. Recommendations

1. THAT in the first instance, monitoring of consented activities associated with New Plymouth District Council's WTPs and water supply schemes in the 2024/25 year continue at the same level as in 2023/24.
2. THAT eDNA analysis may be undertaken during future fish surveys.
3. THAT should there be issues with environmental or administrative performance in 2024/25, 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:

Bund	A wall around a tank to contain its contents in the case of a leak.
Conductivity	Conductivity, an indication of the level of dissolved salts in a sample, usually measured at 25°C and expressed in $\mu\text{S}/\text{cm}$.
Cumec	A volumetric measure of flow- 1 cubic metre per second ($1\text{m}^3\text{s}^{-1}$).
DO	Dissolved oxygen.
eDNA	A method for identifying the presence of local flora and fauna by analysing DNA fragments in a water sample.
Elver	A young eel, especially one that is migrating up a stream from the ocean.
FNU	Formazin nephelometric units, a measure of the turbidity of water.
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.
Incident register	The incident register contains a list of events recorded by the Council on the basis that they may have the potential or actual environmental consequences that may represent a breach of a consent or provision in a Regional Plan.
L/s	Litres per second.
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.
NES	National Environmental Standard.
$\mu\text{S}/\text{cm}$	Microsiemens per centimetre.
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.
Resource consent	Refer Section 87 of the RMA. Resource consents include land use consents (refer Sections 9 and 13 of the RMA), coastal permits (Sections 12, 14 and 15), water permits (Section 14) and discharge permits (Section 15).

RMA	<i>Resource Management Act 1991</i> and including all subsequent amendments.
SS	Suspended solids.
Temp	Temperature, measured in °C (degrees Celsius).
Turb	Turbidity, expressed in NTU or FNU.

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

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Appendix I

Resource consents held by NPDC

(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.

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

Name of
Consent Holder: New Plymouth District Council
Private Bag 2025
NEW PLYMOUTH 4342

Consent Granted
Date: 30 May 2008

Conditions of Consent

Consent Granted: To discharge wastewater from a water treatment plant into
an unnamed tributary of the Mangorei Stream in the
Waiwhakaiho catchment at or about (NZTM)
1696185E-5669305N

Expiry Date: 1 June 2026

Review Date(s): June 2014, June 2020

Site Location: Junction Road, New Plymouth

Legal Description: Lot 1 DP 10097 Blk X Paritutu SD

Catchment: Waiwhakaiho

Tributary: Mangorei

*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. Notwithstanding any other condition of this consent, 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 5038. In the case of any contradiction between the documentation submitted in support of application 5038 and the conditions of this consent, the conditions of this consent shall prevail.
3. The following concentrations shall not be exceeded in the discharge:

Component	Concentration
pH (range)	6.0 – 9.0
suspended solids	100 gm ⁻³
free chlorine	0.2 gm ⁻³

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

4. After allowing for reasonable mixing, within a mixing zone extending 15 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 0672-3

5. 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.
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 2014 and/or June 2020, 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 May 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: New Plymouth District Council
Private Bag 2025
NEW PLYMOUTH 4342

Consent Granted
Date: 30 May 2008

Conditions of Consent

Consent Granted: To discharge stormwater from a water treatment plant into
an unnamed tributary of the Mangorei Stream in the
Waiwhakaiho catchment at or about (NZTM)
1696185E-5669305N

Expiry Date: 1 June 2026

Review Date(s): June 2014, June 2020

Site Location: Junction Road, New Plymouth

Legal Description: Lot 1 DP 10097 Blk X Paritutu SD

Catchment: Waiwhakaiho

Tributary: Mangorei

*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. Notwithstanding any other condition of this consent, 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 substantially in accordance with the documentation submitted in support of application 5001. In the case of any contradiction between the documentation submitted in support of application 5001 and the conditions of this consent, the conditions of this consent shall prevail.
- 3. The stormwater discharged shall be from a catchment area not exceeding 2 hectares.
- 4. The consent holder shall maintain a stormwater management plan. This plan shall document how the site is to be managed in order to minimise the contaminants that become entrained in the stormwater to the satisfaction of the Chief Executive, Taranaki Regional Council.
- 5. The consent holder shall maintain a contingency plan. The plan shall detail measures and procedures to be undertaken to prevent spillage or accidental discharge of contaminants not licensed by this consent, and measures to avoid, remedy or mitigate the environmental effects of such a discharge, to the satisfaction of the Chief Executive, Taranaki Regional Council.
- 6. Any above ground hazardous substances storage areas shall be bunded with drainage to sumps, or other appropriate recovery systems, and not to the stormwater catchment.

7. The following concentrations shall not be exceeded in the discharge:

Component	Concentration
pH (range)	6.0 – 9.0
suspended solids	100 gm ⁻³
free chlorine	0.2 gm ⁻³

This condition shall apply prior to the entry of the stormwater into the receiving waters of the unnamed tributary, at a designated sampling point approved by the Chief Executive, Taranaki Regional Council.

8. After allowing for reasonable mixing, within a mixing zone extending 15 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.
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 2014 and/or June 2020, 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 May 2008

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: New Plymouth District Council
Private Bag 2025
New Plymouth 4342

Decision Date 22 November 2018
(Change):

Commencement Date 22 November 2018 (Granted Date: 25 June 2002)
(Change):

Conditions of Consent

Consent Granted: To take up to 60,480 cubic metres per day at a maximum
rate of 740 litres/second of water from Lake Mangamahoe in
the Waiwhakaiho catchment for municipal water supply
purposes

Expiry Date: 1 June 2021

Site Location: Lake Mangamahoe, Junction Road, New Plymouth

Grid Reference (NZTM) 1697120E-5669050N

Catchment: Waiwhakaiho

Tributary: Mangamahoe
Lake Mangamahoe

*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 exercise of this consent shall be conducted in accordance with the information submitted in support of the application and to ensure that the conditions of the consent are met at all times.
2. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to avoid or minimise any adverse effects on the environment as a result of the exercise of this consent.
3. All intake structures shall be screened to avoid the entrainment of fish in accordance with best practice by June 2020.
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. 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 2006 and/or June 2011 and/or June 2016, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 22 November 2018

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: New Plymouth District Council
Private Bag 2025
NEW PLYMOUTH

Consent Granted
Date: 1 August 2005

Conditions of Consent

Consent Granted: To erect, place and maintain a weir in the Mangorei Stream
in the Waiwhakaiho catchment at or about GR: P19:044-
268

Expiry Date: 1 June 2020

Review Date(s): June 2008, June 2014

Site Location: Scout Road, Korito, New Plymouth

Legal Description: Sec 96 Hua & Waiwakaiho Hun Blk II Egmont SD

Catchment: Waiwhakaiho

Tributary: Mangorei

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 3838. In the case of any contradiction between the documentation submitted in support of application 3838 and the conditions of this consent, the conditions of this consent shall prevail.
- 3. This consent may be reviewed at any time should monitoring show that brown trout densities upstream of the structure are increasing or if there are significant adverse effects on conservation values upstream of the structure or if the structure is found to be no longer necessary for the conservation of native fish biodiversity.
- 4. The consent holder shall undertake annual inspections of the structure authorised by this resource consent and provide a report to the satisfaction of the Chief Executive, Taranaki Regional Council.
- 5. The consent holder shall notify the Chief Executive, Taranaki Regional Council, at least 48 hours prior to any maintenance works of the structure licensed by this consent which would involve disturbance of, or deposition to, the streambed or discharges to water.
- 6. The consent holder, during any maintenance works, shall adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, 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.
- 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. 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

Consent 6643-1

the conditions of this resource consent by giving notice of review during the month of June 2008 and/or June 2014, 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 August 2005

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: New Plymouth District Council
Private Bag 2025
NEW PLYMOUTH

Consent Granted 9 November 2000
Date:

Conditions of Consent

Consent Granted: To erect, place and maintain a pipebridge over the
Mangorei Stream in the Waiwhakaiho catchment at or
about GR: P19:055-316

Expiry Date: 1 June 2020

Review Date(s): June 2002, June 2008, June 2014

Site Location: Mangorei Road, New Plymouth

Legal Description: Lot 1 DP 9635 Pt Sec 773 Grey Dist Blk IX Paritutu SD

Catchment: Waiwhakaiho

Tributary: Mangorei

General conditions

- a) That on receipt of a requirement from the Chief Executive, Taranaki Regional Council (hereinafter the Chief Executive), 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. The consent holder shall notify the Taranaki Regional Council at least 48 hours prior to the commencement and upon completion of the initial construction and again prior to and upon completion of any subsequent maintenance works which would involve disturbance of or deposition to the riverbed or discharges to water.
- 2. The structure[s] authorised by this consent shall be constructed generally in accordance with the documentation submitted in support of the application and shall be maintained to ensure the conditions of this consent are met.
- 3. The consent holder shall adopt the best practicable option to avoid or minimise the discharge of silt or other contaminants into water or onto the riverbed and to avoid or minimise the disturbance of the riverbed and any adverse effects on water quality.
- 4. The consent holder shall ensure that the area and volume of riverbed and bank disturbance shall, so far as is practicable, be minimised and any areas which are disturbed shall, so far as is practicable, be reinstated, including riparian vegetation.
- 5. The structure[s] authorised by this consent shall be removed and the area reinstated, if and when the structure[s] are no longer required. The consent holder shall notify the Taranaki Regional Council at least 48 hours prior to structure[s] removal and reinstatement.
- 6. The Taranaki Regional Council may review any or all of the conditions of this consent by giving notice of review during the month of June 2002 and/or June 2008 and/or June 2014, for the purpose of ensuring that the conditions adequately deal with the environmental effects arising from the exercise of this 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 November 2000

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: New Plymouth District Council
Private Bag 2025
NEW PLYMOUTH

Consent Granted 30 January 2001
Date:

Conditions of Consent

Consent Granted: To disturb the bed of the Mangorei Stream by trenching to
erect, place and maintain a pipeline under the Mangorei
Stream in the Waiwhakaiho catchment at or about GR:
P19:059-331

Expiry Date: 1 June 2020

Review Date(s): June 2002, June 2008, June 2014

Site Location: Junction Road, New Plymouth

Legal Description: Pt Lot 1 DP 6447 Blk X Paritutu SD

Catchment: Waiwhakaiho

Tributary: Mangorei

General conditions

- a) That on receipt of a requirement from the Chief Executive, Taranaki Regional Council (hereinafter the Chief Executive), 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. The consent holder shall notify the Taranaki Regional Council at least 48 hours prior to the commencement and upon completion of the initial construction and again prior to and upon completion of any subsequent maintenance works which would involve disturbance of or deposition to the riverbed or discharges to water.
- 2. The structure[s] authorised by this consent shall be constructed generally in accordance with the documentation submitted in support of the application and shall be maintained to ensure the conditions of this consent are met.
- 3. The disturbance of parts of the riverbed covered by water and/or any works which may result in downstream discolouration of water shall only be undertaken between the period 1 November and 30 April, except where this requirement is waived in writing by the Chief Executive, Taranaki Regional Council.
- 4. The consent holder shall adopt the best practicable option to avoid or minimise the discharge of silt or other contaminants into water or onto the riverbed and to avoid or minimise the disturbance of the riverbed and any adverse effects on water quality.
- 5. The consent holder shall ensure that the area and volume of riverbed and bank disturbance shall, so far as is practicable, be minimised and any areas which are disturbed shall, so far as is practicable, be reinstated, including riparian vegetation.
- 6. The structure[s] authorised by this consent shall be removed and the area reinstated, if and when the structure[s] are no longer required. The consent holder shall notify the Taranaki Regional Council at least 48 hours prior to structure[s] removal and reinstatement.
- 7. The Taranaki Regional Council may review any or all of the conditions of this consent by giving notice of review during the month of June 2002 and/or June 2008 and/or June 2014, for the purpose of ensuring that the conditions adequately deal with the environmental effects arising from the exercise of this consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 30 January 2001

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: New Plymouth District Council
Private Bag 2025
New Plymouth 4342

Decision Date: 29 February 2016

Commencement Date: 29 February 2016

Conditions of Consent

Consent Granted: To take water as a contingency supply and for farm supply
purposes from an intake weir in the Ngatoro Stream

Expiry Date: 1 June 2021

Review Date(s): June 2018

Site Location: Dudley Road, Inglewood

Grid Reference (NZTM) 1698662E-5657635N

Catchment: Waitara

Tributary: Manganui
Ngatoro

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

General condition

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

Special conditions

1. This consent authorises taking:
 - (a) at a maximum rate of 5 litres per second, up to a maximum of 400 m³ in any 24 hour period ending at midnight (New Zealand Standard Time), for a water supply to the Dudley Road Rural Users Group;
 - (b) of up to 5000 m³ in any 24 hour period ending at midnight (New Zealand Standard Time), when the taking authorised by consent 4510 (the main Inglewood water supply intake) can not occur due to necessary maintenance or equipment failure; and
 - (c) at a maximum of 70 litres per second for up to 3 hours for the purpose of back flushing the infiltration gallery at the main Inglewood water supply intake.
2. The rate of taking pursuant to this consent in combination with consent 4510 (the main Inglewood supply intake) shall not exceed 75 litres per second.
3. The consent holder shall notify the Chief Executive, Taranaki Regional Council by emailing worknotification@trc.govt.nz as soon as practicable if any water is to be, or has been, taken pursuant to condition 1(b) above. Notification shall include the consent number, the date that water will be/was first taken, and the circumstances that have necessitated the taking.
4. Before 1 July 2016, the consent holder shall install, and thereafter maintain water meters and dataloggers at sites established in accordance with Regulation 10 of the *Resource Management (Measurement and Reporting of Water Takes) Regulations 2010*. The water meters and dataloggers shall be tamper-proof and shall measure and record the rate and volume of water taken for each of the uses described in condition 1, to an accuracy of $\pm 5\%$. Records of the date, the time and the rates and volumes 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 3934-3.0

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. Any water meter or 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 Taranaki Regional Council officers can readily verify that it is accurately recording the required information.
8. 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 two hours of being recorded.
9. When the flow in the Ngatoro Stream at the 'Bushline' gauging site is less than 134 litres per second the taking of water shall be restricted to the minimum amount necessary to maintain the health of people and animals (i.e. garden watering and other non-essential uses are prohibited).
10. 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.

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 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 February 2016

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: New Plymouth District Council
Private Bag 2025
NEW PLYMOUTH 4342

Consent Granted 12 June 2009
Date:

Conditions of Consent

Consent Granted: To maintain a water supply intake infiltration gallery in and adjacent to the Ngatoro Stream a tributary of the Manganui River in the Waitara catchment and to maintain a pipeline from the gallery to the water treatment station for Inglewood urban water supply purposes at or about (NZTM) 1701081E-5660275N

Expiry Date: 1 June 2027

Review Date(s): June 2015, June 2021

Site Location: Dudley Road, Inglewood

Legal Description: Pt Sec 17 Blk VIII Egmont SD

Catchment: Waitara

Tributary: Manganui
Ngatoro

*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. 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.
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 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.
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 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.

5. Except with the written agreement of the Chief Executive, Taranaki Regional Council, the structure[s] 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.
6. The exercise of this consent shall not restrict the passage of fish.

Consent 4509-2

7. This consent shall lapse on 30 June 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.
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 2015 and/or June 2021, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 12 June 2009

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: New Plymouth District Council
Private Bag 2025
NEW PLYMOUTH 4342

Consent Granted
Date: 12 June 2009

Conditions of Consent

Consent Granted: To take and use water from the Ngatoro Stream a tributary of the Manganui River in the Waitara catchment, for Inglewood urban water supply purposes at or about (NZTM) 1701081E-5660275N

Expiry Date: 1 June 2021

Review Date(s): June 2015

Site Location: Dudley Road, Inglewood

Legal Description: Pt Sec 17 Blk VIII Egmont SD

Catchment: Waitara

Tributary: Manganui
Ngatoro

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. Subject to condition 3, the volume of water taken shall not exceed 4,850 cubic metres per day, at a rate not exceeding 56 litres per second.
- 2. The consent holder shall maintain a water meter and a datalogger. The water meter and a datalogger shall be tamper-proof and shall measure and record the rate and volume of water taken to an accuracy of $\pm 5\%$.
- 3. The consent holder shall be allowed to take up to 70 litres per second when it is necessary in emergency cases, provided previous notification is made to the Chief Executive of the Taranaki Regional Council. Notification shall be made by e-mailing worknotification@trc.govt.nz 24 hours of the emergency abstraction commencing. Notification shall include the consent number and a brief description of the activity consented.
- 4. The consent holder shall make available electronic records of water taken to the Council at a frequency and in a format to be advised by the Chief Executive Taranaki Regional Council.
- 5. Notwithstanding the terms and conditions of this consent the consent holder shall take all reasonable steps to avoid, remedy or mitigate any adverse effect on the environment arising from the exercise of this consent, including, but not limited to, the efficient and conservative use of water
- 6. The consent holder shall ensure that the intake structure is appropriately screened to avoid the entrainment of fish.
- 7. This consent shall lapse on 30 June 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.

Consent 4510-2

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 2015, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 12 June 2009

For and on behalf of
Taranaki Regional Council

Director-Resource Management

TRK975188

LAND USE CONSENT

**Pursuant to the RESOURCE MANAGEMENT ACT 1991
a resource consent is hereby granted by the
Taranaki Regional Council**

Name of: NEW PLYMOUTH DISTRICT COUNCIL
Consent Holder: PRIVATE BAG 2025 NEW PLYMOUTH

Consent
Granted Date: 19 September 1997

CONDITIONS OF CONSENT

Consent Granted: TO LICENSE AND MAINTAIN AN EXISTING WEIR STRUCTURE IN
THE NGATORO STREAM A TRIBUTARY OF THE MANGANUI
RIVER IN THE WAITARA CATCHMENT AT OR ABOUT GR:
P20:088-197

Expiry Date: 1 June 2015

Review Date[s]: June 2003 and June 2009

Site Location: NGATORO STREAM UPPER DUDLEY ROAD, INGLEWOOD

Legal Description: LOT 1 DP8522 BLK XI EGMONT SD

Catchment:	WAITARA	395.000
Tributary:	MANGANUI	395.040
	NGATORO	395.045

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

TRK975188

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 holder shall maintain the weir to enable the passage of native fish, juvenile trout and adult trout.
- 2. THAT the Taranaki Regional Council may review any or all of the conditions of this consent by giving notice of review during June 2003 and/or June 2009, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects of the structure on the environment, which were not foreseen at the time of granting the consent and which it was not appropriate to deal with at that time.

Signed at Stratford on 19 September 1997

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: New Plymouth District Council
Private Bag 2025
New Plymouth 4342

Decision Date: 29 February 2016

Commencement Date: 29 February 2016

Conditions of Consent

Consent Granted: To discharge clarifier bleed and filter backwash supernatant overflow from the Inglewood water treatment plant into the Ngatoro Stream

Expiry Date: 1 June 2021

Review Date(s): June 2018

Site Location: Dudley Road, Inglewood

Grid Reference (NZTM) 1701945E-5660972N

Catchment: Waitara

Tributary: Manganui
Ngatoro

*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 discharge shall for no more than 3 hours per day, at a rate not exceeding 125 m³ per hour.
2. 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.
3. At all times after 30 April 2016, the site shall be operated in accordance with a 'Management Plan' prepared by the consent holder and approved by the Chief Executive, Taranaki Regional Council, acting in a certification capacity. The plan shall detail how the site will be managed to achieve compliance with the conditions of this consent and shall include as a minimum:
 - (a) a schedule of sampling of the discharge;
 - (b) details of maintenance and operation of the settlement facility;
 - (c) a schedule of monitoring of sediment levels in the reservoir; and
 - (d) a programmed cleaning regime.
4. 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.
5. Constituents of the discharge shall meet the standards shown in the following table.

Constituent	Standard
pH	Within the range 6.0 to 9.0
suspended solids	Concentration not greater than 20 gm ⁻³
Free available chlorine	Concentration not greater than 0.1 gm ⁻³

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

6. The consent holder shall notify the Chief Executive, Taranaki Regional Council, prior to making any changes to the processes or operations undertaken at the site, or the chemicals used or stored on site that could alter the nature of the discharge. Any such change shall then only occur following receipt of any necessary approval under the Resource Management Act 1991. Notification shall include the consent number, a brief description of the activity consented and an assessment of the environmental effects of any changes, and be emailed to consents@trc.govt.nz.
7. 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 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 February 2016

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: New Plymouth District Council
Private Bag 2025
NEW PLYMOUTH 4600

Consent Granted
Date: 11 December 2006

Conditions of Consent

Consent Granted: To discharge filter backwash from the Oakura Water
Treatment Plant onto and into land in the vicinity of the
Wairau Stream at or about GR: P19:930-301

Expiry Date: 1 June 2025

Review Date(s): June 2013, June 2019

Site Location: Main South Road, Oakura

Legal Description: Sec 13 Pt Sec 14 30 Oakura Dist Blk II Wairau SD

Catchment: Wairau

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 4477. In the case of any contradiction between the documentation submitted in support of application 4477 and the conditions of this consent, the conditions of this consent shall prevail.
- 3. The discharge quality shall not exceed the following limits at all times:

Component	Concentration
Suspended solids	100 g/m ³
Free available chlorine	0.2 g/ m ³
pH	6-9

- 4. The discharge shall not give rise to any of the following effects in the Wairau 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 1277-3

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

Signed at Stratford on 11 December 2006

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: New Plymouth District Council
Private Bag 2025
NEW PLYMOUTH 4342

Decision Date: 12 September 2013

Commencement Date: 12 September 2013

Conditions of Consent

Consent Granted: To take and use water from the Wairau Stream for Oakura
water supply purposes

Expiry Date: 1 June 2031

Review Date(s): June 2019, June 2025

Site Location: Upper Wairau Road, Oakura

Legal Description: Pt Sub 2 Sec 170 Oakura Dist (Site of take)

Grid Reference (NZTM) 1683254E-5667943N

Catchment: Wairau

*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 with section 36 of the Resource Management Act.

Special conditions

1. The water abstraction shall only be exercised as a contingency measure, when the groundwater bores are unable to provide sufficient water to the Oakura supply scheme.
2. The volume of water abstracted shall not exceed 1,300 cubic metres/day and the rate shall not exceed 15 litres/second.
3. 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/ on an annual basis.

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 officer's at all reasonable times for inspection and/or data retrieval.

Consent 1278-4

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. During any 12-month period ending on 30 June in which this consent is exercised, the consent holder shall make a payment of \$1300 (plus GST) to the Taranaki Regional Council as a financial contribution. The financial contribution shall be used to remedy or mitigate adverse environmental effects of the taking in the Wairau Stream catchment. The financial contribution shall be adjusted in accordance with the Consumer Price Index (or similar) so that the real value of the payment remains the same.
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. 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.
11. The Taranaki Regional Council may review, under section 128 of the Resource Management Act, 1991:
 - (a) Condition 2 to assess water use requirements in June 2019 and /or June 2025; and
 - (b) Any or all of the conditions of this consent by giving notice of review during the month of June 2019 and /or June 2025, for the purpose of ensuring that the conditions are adequate to deal with any 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 12 September 2013

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: New Plymouth District Council
Private Bag 2025
NEW PLYMOUTH

Consent Granted 13 June 2001
Date:

Conditions of Consent

Consent Granted: To erect, place and maintain a weir in the Wairau Stream
for Oakura water supply purposes at or about GR:
P19:933-297

Expiry Date: 1 June 2013

Review Date(s): June 2004, June 2007, June 2008, June 2009

Site Location: Upper Wairau Road, Oakura

Legal Description: Pt Subn 2 of Sec 170 Oakura Dist Blk III Cape SD

Catchment: Timaru

Tributary: Wairau

Consent 5713-1

General conditions

- a) That on receipt of a requirement from the Chief Executive, Taranaki Regional Council (hereinafter the Chief Executive), 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. The consent holder shall construct the weir, including the fish pass, in general accordance with Plan No W-DFC-1001 submitted with application 1174.
- 2. The consent holder shall notify the Taranaki Regional Council, at least 48 hours prior to the construction of the fish pass and any maintenance works which would involve disturbance of, or deposition to the streambed or discharges to water.
- 3. The structure authorised by this consent shall be maintained to ensure the conditions of this consent are met.
- 4. The consent holder shall ensure that the intake is appropriately screened to avoid the entrapment of native fish.
- 5. That any works or structures which are the subject of this consent shall not obstruct native fish passage.
- 6. The consent holder, during fish pass construction and weir maintenance, 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 any adverse effects on water quality.
- 7. The structure authorised by this consent shall be removed and the area reinstated, if and when the structure is no longer required. The consent holder shall notify the Taranaki Regional Council at least 48 hours prior to the removal of the structure and reinstatement of the area.
- 8. That the fishpass shall be installed only between 1 November and 30 April.

Consent 5713-1

9. The Taranaki Regional Council may review, under section 128 of the Resource Management Act 1991, any or all of the conditions of this consent by giving notice of review during the month of June 2004, June 2007, June 2008 and/or June 2009, 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 13 June 2001

For and on behalf of
Taranaki Regional Council

Chief Executive

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

Name of
Consent Holder: New Plymouth District Council
Private Bag 2025
NEW PLYMOUTH

Consent Granted
Date: 19 March 2003

Conditions of Consent

Consent Granted: To take and use groundwater from two bores for Oakura
water supply purposes at or about GR: P19:932-300 and
GR: P19:934-301

Expiry Date: 1 June 2020

Review Date(s): June 2008, June 2014

Site Location: Wairau Road, Oakura

Legal Description: Lot 1 DP 312138 & Lot 1 DP 19978 Blk II Wairau SD

Catchment: Oakura

Tributary: Wakamure

Consent 6114-1

General conditions

- a) On receipt of a requirement from the Chief Executive, Taranaki Regional Council (hereinafter the Chief Executive), 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 general accordance with the information submitted in support of the application and to ensure the conditions of this consent are met at all times.
- 2. The consent holder shall at all times adopt the best practicable option, as defined by section 2 of the Resource Management Act 1991, 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.
- 3. The volume of water abstracted shall not exceed 3715 cubic metres/day at an individual bore rate of 35 litres/second, or a combined rate of 43 litres/second between the two bores.
- 4. The abstraction shall be managed such that there are no adverse effects on other known groundwater and surface water takes from the exercise of this consent.
- 5. The consent holder shall operate a measuring device capable of recording daily rates of abstraction from the bore[s] and monitor water levels in nearby observation bores, and shall make these records available to the Chief Executive upon request.
- 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 2008 and/or June 2014, 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 19 March 2003

For and on behalf of
Taranaki Regional Council

Chief Executive

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

Name of
Consent Holder: New Plymouth District Council
Private Bag 2025
New Plymouth 4342

Decision Date 23 October 2019

Commencement Date 14 November 2019

Conditions of Consent

Consent Granted: To take water from the Mangatete Stream for public water supply purposes

Expiry Date: 1 June 2037

Review Date(s): June 2022 and at 3-yearly intervals thereafter

Site Location: Okato Intake, 81 Saunders Road, Okato

Grid Reference (NZTM) 1678245E-5658219N

Catchment: Kaihihi

Tributary: Mangatete

*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. Subject to condition 2, the rate of taking shall not exceed 13.8 litres per second, and the volume taken in any 24 hour period ending at midnight (New Zealand Standard Time) shall not exceed 1,000 cubic metres.
2. The volume taken in any 24 hour period ending at midnight (New Zealand Standard Time) may be up to 1,200 cubic metres if an emergency occurs at the plant that threatens the security of the water supply for Okato. For the purposes of this condition, an emergency situation is any event beyond the control of the consent holder which adversely impacts the consent holder's ability to provide potable water, including but not limited to: failure of critical equipment (e.g. power supply), contamination of river water, damage to infrastructure (intake structure, pipeline, treatment plant) and large fire.
3. If any water in excess of 1000 m³ is taken in accordance with condition 2 the consent holder shall notify the Chief Executive, Taranaki Regional Council. within 7 working days of the emergency ending and provide a report that details as a minimum:
 - a) the nature of the emergency;
 - b) the volume of water abstracted;
 - c) the minimum flow that occurred over the period of increased take; and
 - d) the water conservation measures adopted during the emergency.

A further report shall be provided within 6 months detailing any measures that can be adopted to prevent a reoccurrence.

4. Before exercising this consent holder shall install, and thereafter maintain water measuring equipment 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*. This equipment shall be tamper-proof and record the rate and volume of water taken to an accuracy of $\pm 5\%$ at intervals not exceeding 15 minutes.
5. The consent holder shall provide the Chief Executive, Taranaki Regional Council with a document from a suitably qualified person certifying that water measuring equipment (and equipment used for recording) required by the conditions of this consent:
 - a) have been installed and/or maintained in accordance with the manufacturer's specifications; and/or
 - b) have been tested and shown to be operating to an accuracy of $\pm 5\%$.

The documentation shall be provided:

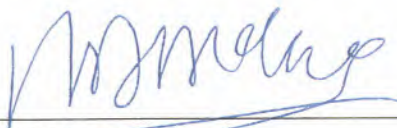
- (i) within 30 days of the installation of the equipment;
- (ii) at other times when reasonable notice is given and the Chief Executive, Taranaki Regional Council has reasonable evidence that the equipment may not be functioning as required by this consent; and
- (iii) no less frequently than once every 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 and a maintenance report provided to the Chief Executive, Taranaki Regional Council within 30 days of the work occurring.
7. For the purposes of determining the flow in the Mangatete Stream the consent holder shall measure and record its water level at the Saunders Road bridge at intervals not exceeding 15 minutes, and establish a rating curve.
8. 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.
9. The unverified water level record and the record of water taken shall be made available to the Taranaki Regional Council within two hours of being recorded. Before 1 August each year the consent holder shall provide the Taranaki Regional Council with the verified record for the previous July to June period.
10. When the mean daily flow in the Mangatete Stream at the Saunders Road bridge is less than 180 litres/second for a period of seven or more consecutive days, the consent holder shall enforce 'level 1' water restrictions. These restrictions may only be lifted when the mean daily flow is greater than 180 litres/second for a period of seven or more consecutive days. 'Level 1' restrictions include:
 - a) a total ban on using sprinklers, irrigations systems and unattended hoses; and
 - b) partial restriction of on using hand held hoses (using the odds and evens street address system).
11. When the mean daily flow in the Mangatete Stream at the Saunders Road bridge is less than 120 litres/second for a period of seven or more consecutive days, the consent holder shall enforce 'level 2' restrictions. These restrictions may only be lifted when the mean daily flow is greater than 120 litres/second for a period of seven or more days. 'Level 2' restrictions include a total ban on using sprinklers, irrigations systems and hand held hoses.
12. Before 1 December 2020 the consent holder shall provide a report to the Chief Executive, Taranaki Regional Council that:
 - a) details the effectiveness of implementing level one and level two water restrictions on water use; and
 - b) details on how the consent holder enforces level 1 and level 2 water restrictions.The consent holder shall undertake a review of the report at three year intervals and provide the reviewed report to the Chief Executive, Taranaki Regional Council.
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. At all times the intake shall be maintained to avoid fish (including juveniles) entering the intake or being trapped.
15. The consent holder shall mitigate or offset the environmental effects of the taking by making two annual payments of \$10,000 (plus GST) to the Taranaki Regional Council as a financial contribution for the purpose of funding environmental enhancement projects. The environmental enhancement projects are to be in both the New Plymouth District and the rohe of Taranaki Iwi, and primarily involve reinstatement of fish passage. The first payment shall be made within 60 days of this consent commencing.
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 2022 and at 3-yearly intervals thereafter, 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 23 October 2019

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: New Plymouth District Council
Private Bag 2025
New Plymouth 4342

Decision Date 27 November 2019

Commencement Date 27 November 2019

Conditions of Consent

Consent Granted: To dam water and use an existing weir in the Mangatete
Stream for water supply purposes and to undertake
maintenance on the weir

Expiry Date: 1 June 2037

Review Date(s): June 2021, June 2024, June 2027,
June 2030, June 2033, June 2036

Site Location: Saunders Road, Okato

Grid Reference (NZTM) 1678238E-5658247N

Catchment: Kaihihi

Tributary: Mangatete

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

General condition

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

Special conditions

1. This consent authorises the use of a weir existing at the time of this consent being granted along with the maintenance in general accordance with the details provided with the application for this consent. If there is any conflict between the documentation submitted in support of the application and the conditions of this consent, the conditions of this consent shall prevail.
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 weir shall not restrict the passage of fish.
4. The maintenance works shall not restrict the passage of fish.
5. The maintenance work shall be completed before 1 May 2020.
6. The consent holder shall notify the Chief Executive, Taranaki Regional Council, in writing at least 48 hours prior to and upon completion of the weir maintenance works. Unless the Chief Executive advises that an alternative electronic method is required this notice shall be served by completing and submitting the 'Notification of work' form on the Council's website (<https://onlineservices.trc.govt.nz/online-services/new/worknotification-online-form/step/1>).
7. The consent holder shall ensure that the area and volume of riverbed disturbance during maintenance shall, so far as is practicable, be minimised and any areas which are disturbed shall, so far as is practicable, be reinstated.
8. The consent holder shall take all reasonable steps during maintenance 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.

Consent 4805-3.0

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 2021 and at 3-yearly intervals 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 November 2019

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: New Plymouth District Council
Private Bag 2025
NEW PLYMOUTH 4342

Decision Date: 21 June 2013

Commencement Date: 21 June 2013

Conditions of Consent

Consent Granted: To take and use water from the Waiongana Stream to
supply water for industry in Waitara

Expiry Date: 1 June 2031

Review Date(s): June 2018, June 2024, June 2030

Site Location: Mountain Road, Lepperton

Legal Description: Adjacent to Pt Sec 190 (Site of take)

Grid Reference (NZTM) 1704217E-5672857N

Catchment: Waiongana

*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. The rate of taking shall not exceed 58 litres per second.
2. The consent holder shall notify the Chief Executive, Taranaki Regional Council of the intention to exercise this consent at least 60 days before the consent is first exercised. Notification shall include the consent number and a brief description of the activity consented and be emailed to worknotification@trc.govt.nz.
3. 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/ on an annual basis.

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 officer's 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. When the flow in the Waiongana Stream is less than 471 litres per second as measured at State Highway 3A, the taking of water shall be restricted to the minimum amount necessary to maintain the health and welfare of people and animals (i.e. garden water and other non-essential uses are prohibited).
9. The taking of water authorised by this consent shall be managed to ensure that the flow in the Waiongana Stream as measured at State Highway 3A is not less than 402 litres per second. No taking shall occur when the flow is less than 402 litres per second.
10. 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 from the Waiongana Stream, including, but not limited to, the efficient and conservative use of water.
11. The consent holder shall ensure that the intake is screened to avoid fish (in all stages of their life-cycle) entering the intake or being trapped against the screen.
12. During any 12-month period ending on 30 June in which this consent is exercised, the consent holder shall make a payment of \$2000 (plus GST) to the Taranaki Regional Council as a financial contribution. The financial contribution shall be used to remedy or mitigate adverse environmental effects of the taking in the Waiongana Stream catchment. The financial contribution shall be adjusted in accordance with the Consumer Price Index (or similar) so that the real value of the payment remains the same.
13. The consent holder shall provide reports to the Chief Executive, Taranaki Regional Council to demonstrate that the amount authorised for taking, or some lesser amount, is reasonably needed. These reports shall be provided no later than 30 April 2018, 30 April 2024, and 30 April 2030.
14. This consent shall lapse on in 1 June 2031, 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.

15. 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 and/or June 2030, for the purposes of:
- (a) reducing the amount of water authorised to be taken following a review of requirements provided in accordance with condition 13;
 - (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; and/or
 - (c) 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 21 June 2013

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: New Plymouth District Council
Private Bag 2025
NEW PLYMOUTH

Consent Granted 16 June 2003
Date:

Conditions of Consent

Consent Granted: To use and maintain an existing weir, fish pass and
associated intake structures on the Waiongana Stream for
Waitara Industrial water supply purposes at or about GR:
Q19:143-344

Expiry Date: 1 June 2020

Review Date(s): June 2008, June 2014

Site Location: Mountain Road, Lepperton

Legal Description: Pt Secs 190 & 191 Blk XI Paritutu SD

Catchment: Waiongana

Consent 4816-2

General conditions

- a) On receipt of a requirement from the Chief Executive, Taranaki Regional Council (hereinafter the Chief Executive), 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 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.
- 2. 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.
- 3. 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.
- 4. 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
- 5. The structure[s] authorised by this consent shall be maintained to ensure the conditions of this consent are met.
- 6. 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.
- 7. 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.

Consent 4816-2

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 2008 and/or June 2014, 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 16 June 2003

For and on behalf of
Taranaki Regional Council

Chief Executive

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: New Plymouth District Council
Private Bag 2025
NEW PLYMOUTH

Consent Granted 9 April 2002
Date:

Conditions of Consent

Consent Granted: To modify and maintain an existing earth retention
structure (dam) on the Kakapo Stream at or about GR:
Q19:303-429

Expiry Date: 1 June 2021

Review Date(s): June 2009, June 2015

Site Location: Kaipikari Road, Urenui

Legal Description: Lots 1 & 2 DP 12063 Urenui Dist

Catchment: Onaero

Tributary: Kakapo

General conditions

- a) On receipt of a requirement from the Chief Executive, Taranaki Regional Council (hereinafter the Chief Executive), 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 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.
- 2. Any works or structure[s] which are the subject of this consent shall not obstruct fish passage after 1 December 2003.
- 3. The consent holder, during fish pass construction and any structure maintenance, 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.
- 4. The consent holder, during fish pass construction and any structure maintenance shall ensure that the area and volume of river bed 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 structure[s] authorised by this consent shall be maintained to ensure the conditions of this consent are met.
- 6. 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.
- 7. 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 2009 and/or June 2015, 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 April 2002

For and on behalf of
Taranaki Regional Council

Director-Resource Management

Appendix II

Categories used to evaluate environmental and administrative performance

Categories used to evaluate environmental and administrative performance

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

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

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

Environmental Performance

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

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

For example:

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

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

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

Administrative performance

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

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

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

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

