# Lower Waiwhakaiho Catchment

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Monitoring Programme Annual Report 2023/24 Technical Report 2024-15



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Monitoring Programme Annual Report 2023/24 Technical Report 2024-15

Taranaki Regional Council Private Bag 713 Stratford

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# **Executive summary**

The Lower Waiwhakaiho River Catchment monitoring programme addresses discharges by several consent holders in the Fitzroy area of New Plymouth.

This report for the period July 2023 to June 2024 and is the 31<sup>st</sup> report for this combined monitoring programme.

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

The Waiwhakaiho River Catchment is significant for the Taranaki region. It is used for domestic, agricultural and industrial water supply, hydroelectric power generation, recreational purposes, and waste assimilation. It is also important to the local hapū. Because of the pressure on the river, Taranaki Regional Council (the Council) adopted a water management plan for the river in September 1991.

During the 2023/24 monitoring period a total of 19 consents were held by the 14 industries monitored under this programme that discharge wastewater, stormwater and/or leachate from the industrial area at Fitzroy, New Plymouth to the lower Waiwhakaiho River and Mangaone Stream, or to land in the lower Waiwhakaiho and Mangaone Stream catchments. The activities and impacts of the consent holders upon water quality are discussed, as is the extent of their compliance with their permits, and their overall environmental performance. There is a separate report covering emissions to air within the catchment.

The monitoring programme included 37 site inspections, 55 samples of discharges, groundwater and receiving waters, and two biomonitoring surveys of the Waiwhakaiho River and Mangaone Stream.

Three of the four biomonitoring surveys undertaken during the monitoring period indicated a decline in macroinvertebrate community health in a downstream direction, however due to the complexity of the system it is difficult to link the decline to any single discharge from the Lower Waiwhakaiho Industrial area into the Waiwhakaiho River or Mangaone Stream.

A low level of the light organic solvent preservative (LOSP) chemical Propiconazole was detected in the Mangaone Stream downstream of Taranaki Sawmills Ltd during a wet weather survey. However, levels of these chemicals were similar to concentrations detected historically.

Monitoring of groundwater and leachate in relation to the old landfill area off Bewley Road showed the pH level was outside consent limits at two of the monitoring bores.

There were two unauthorised incidents recorded that were associated with the consents covered by this report which resulted in further enforcement action, with two abatement notices being issued.

During the period under review, **Bunnings Limited** demonstrated a **good** level of environmental and **high** administrative performance and compliance with their resource consent and RFWP as defined in Appendix II. Three of the five monitoring bores were not able to be accessed for sampling (as required by consent conditions). These may need to be reinstated. Groundwater monitoring continues to show the likelihood of fugitive historical fertiliser discharges from the former storage depot.

**Dialog Fitzroy** demonstrated a **good** level of environmental and a **high** level of administrative performance and compliance with their resource consents as defined in Appendix II.

During the period under review, **Downer EDI Works Ltd** demonstrated a **level of environmental performance that required improvement** and **high** level of administrative performance and compliance with their resource consents, as defined in defined in Appendix II, relation to its Rifle Range Road site.

During the period under review, **Enviro NZ** demonstrated a **high** level of environmental and administrative performance and compliance with their resource consent, as defined in Appendix II.

During the period under review, **Firth Industries Ltd** demonstrated a **high** level of environmental and administrative performance and compliance with their resource consents in relation to its site on Clemow Road.

During the period under review, **Holcim NZ Ltd** demonstrated a **high** level of environmental and administrative performance and compliance with their resource consents in relation to its site on Clemow Road.

During the period under review, **KiwiRail Holdings Ltd** and **New Zealand Railways Corporation Ltd** demonstrated a **high** level of environmental and administrative performance and compliance with their resource consent as defined in Appendix II.

During the period under review, **New Plymouth District Council** demonstrated a **good** level of environmental performance and **high** level of administrative performance and compliance with its resource consents as defined in Appendix II. Further work may be required to understand chemical fluctuations, and subsequent consent limit exceedances, in leachate discharge to groundwater and surface water in the area.

During the period under review, **Ravensdown Fertiliser** demonstrated a level of environmental performance that **required improvement** and a **high** level administrative performance and compliance with their resource consent as defined in Appendix II.

During the period under review, **Taranaki Sawmills Lt**d demonstrated a **good** level of environmental performance and a **high** administrative performance and compliance with their resource consent as defined in Appendix II.

During the period under review, **Technix Group Ltd** demonstrated a **high** level of environmental and administrative performance and compliance with their resource consent as defined in Appendix II.

During the period under review, **Urban Aspect Limited** demonstrated a **good** level of environmental performance and a high level of administrative performance and compliance with their resource consent as defined in Appendix II.

During the period under review, **Waste Management NZ Ltd** demonstrated a **high** level of environmental level of administrative performance and compliance with their resource consent and RFWP as defined 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.

This report includes recommendations for the 2024/25 year, including a recommendation relating to an optional review of consent 3865-4.1 in June 2025.

# Table of contents

				-	
1.		Introducti	ion	1	
	1.1	Complia	ance monitoring programme reports and the Resource Management Act 1991	1	
		1.1.1	Introduction	1	
		1.1.2	Structure of this report	1	
		1.1.3	The Resource Management Act 1991 and monitoring	2	
		1.1.4	Evaluation of environmental performance	2	
	1.2	Resourc	e consents	3	
	1.3	Monito	ring programme	6	
		1.3.1	Introduction	6	
		1.3.2	Programme liaison and management	6	
		1.3.3	Site inspections	6	
		1.3.4	Chemical sampling	6	
		1.3.5	Biomonitoring surveys	8	
2.		Bunnings Limited			
	2.1	Site des	cription	9	
	2.2	Results		10	
		2.2.1	Inspections	10	
		2.2.2	Results of discharge monitoring	10	
		2.2.3	Results of groundwater monitoring	11	
	2.3	Incident	ts, investigations, and interventions	14	
	2.4	Evaluati	on of performance	14	
3.		Dialog Fit	zroy	15	
	3.1	Site des	cription	15	
	3.2	Results		16	
		3.2.1	Inspections	16	
		3.2.2	Results of discharge monitoring	16	
	3.3	Incident	ts, investigations, and interventions	17	
	3.4	Evaluati	on of performance	17	
4.		Downer EDI Works Ltd			
	4.1	Site des	cription	20	
	4.2	Results		21	
		4.2.1	Inspections	21	

Page

		4.2.2	Results of discharge monitoring	22
	4.3	Incidents	s, investigations, and interventions	22
	4.4	Evaluatio	on of performance	23
5.		Enviro NZ		24
	5.1	Site desc	ription	24
	5.2	Results		24
		5.2.1	Inspections	24
		5.2.2	Results of discharge monitoring	25
	5.3	Incidents	s, investigations, and interventions	25
	5.4	Evaluatio	on of performance	25
6.		Firth Indus	tries Ltd	27
	6.1	Site desc	ription	27
	6.2	Results		28
		6.2.1	Inspections	28
		6.2.2	Results of discharge monitoring	28
	6.3	Incidents	s, investigations, and interventions	29
	6.4	Evaluatio	on of performance	29
7.		Holcim NZ	Limited	30
	7.1	Site desc	ription	30
	7.2	Results		31
		7.2.1	Inspections	31
		7.2.2	Results of discharge monitoring	31
	7.3	Incidents	s, investigations, and interventions	31
	7.4	Evaluatio	on of performance	32
8.		KiwiRail Ho	oldings Ltd / New Zealand Railway Corporati	ion 33
	8.1	Site desc	ription	33
	8.2	Results		34
		8.2.1	Inspections	34
		8.2.2	Results of discharge monitoring	34
		8.2.3	Results of surface water monitoring	34
	8.3	Incidents	s, investigations, and interventions	35
	8.4	Evaluatic	on of performance	35
9.		New Plymo	outh District Council	37
	9.1	Site desc	ription	37
		9.1.1	Water discharge permits	37

		9.1.2	Bewley Road closed landfill	39
	9.2	Results		39
		9.2.1	Inspections	39
		9.2.2	Results of discharge monitoring	39
		9.2.3	Results of groundwater monitoring and receiving environment	42
	9.3	Incidents	s, investigations, and interventions	45
	9.4	Evaluatio	on of performance	45
10.		Ravensdov	wn Fertiliser Co-operative Ltd	47
	10.1	Site desc	ription	47
	10.2	Results		47
		10.2.1	Inspections	47
		10.2.2	Results of discharge monitoring	48
	10.3	Incidents	s, investigations, and interventions	48
	10.4	Evaluatio	on of performance	49
11.		Taranaki S	awmills Ltd	50
	11.1	Site desc	cription	50
	11.2	Results		51
		11.2.1	Inspections	51
		11.2.2	Results of discharge monitoring	51
		11.2.3	Results of surface water monitoring	52
	11.3	Incidents	s, investigations, and interventions	53
	11.4	Evaluatio	on of performance	54
12.		Technix Gr	roup Ltd	55
	12.1	Site desc	cription	55
	12.2	Results		56
		12.2.1	Inspections	56
		12.2.2	Results of discharge monitoring	56
	12.3	Incidents	s, investigations, and interventions	56
	12.4	Evaluatio	on of performance	57
13.		Urban Asp	ect Limited	58
	13.1	Site desc	cription	58
	13.2	Results		58
		13.2.1	Inspections	58
		13.2.2	Results of discharge monitoring	59
	13.3	Incidents	s, investigations, and interventions	59
	13.4	Evaluatio	on of performance	60

14.	Waste Management NZ Ltd			61
	14.1	Site des	scription	61
	14.2	Results		61
		14.2.1	Inspections	61
		14.2.2	Results of discharge monitoring	62
	14.3	Incident	ts, investigations, and interventions	62
	14.4	Evaluati	on of performance	63
15.		Surface w	ater quality	64
	15.1	Chemica	al sampling surveys	64
		15.1.1	Waiwhakaiho River wet weather survey	64
		15.1.2	Mangaone Stream wet weather survey	65
	15.2	Freshwa	ater biomonitoring	66
		15.2.1	Fish surveys	66
16.		Discussion	67	
	16.1	Discussi	ion of site performance	67
	16.2	Environ	mental effects of exercise of consents	67
		16.2.1	Macroinvertebrate surveys	68
	16.3	Evaluati	on of performance	70
	16.4	Recommendations from the 2022/23 Annual Report		70
	16.5	Alterations to monitoring programmes for 2024/25		
	16.6	Exercise	e of optional review of consent	72
17.		Recomme	endations	73
Gloss	ary of c	common tei	rms and abbreviations	74
Biblic	graphy	and refere	nces	77
Appendix I		Resource	consents held by Companies in the Lower Waiwhakaiho River a	nd Mangaone Stream

Appendix II Categories used to evaluate environmental and administrative performance

# List of tables

Catchments

Table 1	Resource consents for discharges to the Mangaone Stream and lower Waiwhakaiho River from				
	New Plymouth industrial area	4			
Table 2	Bunnings wetland stormwater sampling results, site STW002003	10			
Table 3	Groundwater quality measurements at GND2346 during 2023/24 compared to the historical values	11			

Table 4	Groundwater quality measurements at GND0517 during the 2023/24 compared to the historical values	11
Table 5	Results from the receiving environment at sites MGO000151 and MGO000155	12
Table 6	Summary of performance for Bunnings Limited Consent 3865-4.1	14
Table 7	Dialog Fitzroy stormwater sampling results collected during discharge only survey	16
Table 8	Dialog Fitzroy stormwater sampling results collected during wet weather survey	16
Table 9	Incidents, investigations, and interventions summary table	17
Table 10	Summary of performance for Dialog Fitzroy Consent 0021-4	17
Table 11	Summary of performance for Dialog Fitzroy Consent 9853-2	18
Table 12	Summary of performance for Dialog Fitzroy Consent 9981-1	18
Table 13	Summary of performance for Dialog Consent 9982-1	19
Table 14	Downer sampling results from the pond outlet (IND002002) and downstream of the dischar (MGO000189). The consent limits apply to the discharge	ge 22
Table 15	Enforcement actions, incidents, investigations, and interventions summary table	23
Table 16	Summary of performance for Downer EDI Consent <b>3917-3</b>	23
Table 17	Enviro NZ stormwater sampling results	25
Table 18	Summary of performance for Enviro NZ Consent 10109-1	25
Table 19	Firth stormwater sampling results, sites IND002001 and STW001080	28
Table 20	Summary of performance for Firth Consent 0392-4	29
Table 21	Holcim stormwater sampling results, site STW002033	31
Table 22	Summary of performance for Holcim Consent 4539-2	32
Table 23	KiwiRail stormwater sampling results, site IND002014	34
Table 24	Mangamiro Stream surface water sampling results, 29 May 2024	35
Table 25	Summary of performance for KiwiRail Consent 1735-3	35
Table 26	Summary of performance for KiwiRail Consent 3528-3	36
Table 27	Stormwater sampling results for Burton Street, site STW001081	40
Table 28	Stormwater sampling results for McLeod's Drain, site STW001001	40
Table 29	Stormwater sampling results for Vickers Road, site STW001020	41
Table 30	Stormwater sampling results for mid Katere Road, site STW001116	41
Table 31	Stormwater sampling results for Hurlstone Drive, site STW001035	42
Table 32	Monitoring results from groundwater bores during the 2023/24 monitoring year	43
Table 33	Summary of performance for NPDC Consent 1275-3	45
Table 34	Summary of performance for NPDC Consent 5163-2	46
Table 35	Summary of performance for NPDC Consent 4984-2	46
Table 36	Ravensdown stormwater sampling results, site STW002097	48
Table 37	Incidents, investigations, and interventions summary table	49

Table 38	Summary of performance for Ravensdown Consent 10513-1	49
Table 39	TSM stormwater sampling results, site IND001068	52
Table 40	Surface water sampling results below TSM discharge, site MGO000145	53
Table 41	Incidents, investigations, and interventions summary table	53
Table 42	Summary of performance for TSM Consent 3491-3	54
Table 43	Summary of performance for Technix Consent 0291-3	57
Table 44	Urban Aspect stormwater sampling results, site STW001146	59
Table 45	Incidents, investigations, and interventions summary table	60
Table 46	Summary of performance for Urban Aspect Consent 10008-1	60
Table 47	Waste Management stormwater sampling results, site STW002098	62
Table 48	Summary of performance for Waste Management Consent 10430-1	63
Table 49	Results of wet weather monitoring of lower Waiwhakaiho River, 29 May 2024	64
Table 50	Results of wet weather monitoring of Mangaone Stream, 29 May 2024	65

# List of figures

Figure 1	Lower Waiwhakaiho industrial catchment and sampling sites	5
Figure 2	Groundwater monitoring bore locations and associated surface water sampling sites	8
Figure 3	Aerial view of Bunnings site with associated sampling points	9
Figure 4	Historical variability of fluoride, pH, unionised ammonia, ammoniacal nitrogen, sulphate, and total phosphorus at the five groundwater bores	d 13
Figure 5	Aerial view of Dialog Fitzroy Ltd site and associated sampling points	15
Figure 6	Aerial view of Downer site with associated sampling points	20
Figure 7	Aerial view of Enviro NZ site with associated sampling points	24
Figure 8	Aerial view of Firth site with associated sampling points	27
Figure 9	Aerial view of Holcim site location with associated sampling point	30
Figure 10	Aerial view of KiwiRail site with associated sampling points	33
Figure 11	Aerial view of NPDC stormwater and leachate discharge locations in the Waiwhakaiho Catchment	38
Figure 12	Aerial view of NPDC stormwater discharges to the Mangaone Stream	38
Figure 13	Sulphate, pH, potassium and ammoniacal nitrogen measurements over time at the control bore GND0556 and the two bores GND0548 and GND0555 in the old landfill	43
Figure 14	Unionised ammonia and total ammonium concentrations in the receiving environment and combined stormwater and landfill leachate discharge measured during the two groundwate surveys	er 44
Figure 15	Unionised ammonia and ammoniacal nitrogen concentrations measured over time at WKH000872 (wet and dry runs)	45
Figure 16	Aerial view of Ravensdown site	47

Figure 17	Aerial view of Taranaki Sawmills Katere Road site with associated sampling points	50
Figure 18	Aerial view of Technix site, and associated stormwater discharge (combined discharge with Dialog Fitzroy)	55
Figure 19	Aerial view of Urban Aspect site with associated sampling point	58
Figure 20	Aerial view of Waste Management site and sampling location	61
Figure 21	Macroinvertebrate index results 14 November 2023	69
Figure 22	Macroinvertebrate index results 20 March 2024	70

# 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) on the monitoring programme associated with resource consents held by 14 industries and New Plymouth District Council (NPDC) in the Lower Waiwhakaiho Catchment. The monitoring covers discharges to water and land in the Fitzroy and Katere Road industrial areas of New Plymouth.

This report covers the results and findings of the monitoring programme implemented by the Council in respect of the consents held by these industries that relate to discharges of stormwater, wastewater and leachate to the Lower Waiwhakaiho River and Mangaone Stream, and to land in the Mangaone Stream Catchment.

One of the intents of the *Resource Management Act 1991* (RMA) is that environmental management should be integrated across all media, so that a consent holder's use of water, air, and land should be considered from a single comprehensive environmental perspective. Accordingly, the Council generally implements integrated environmental monitoring programmes and reports the results of the programmes jointly. This report discusses the environmental effects of the companies' use of water and land and is the 31<sup>st</sup> combined annual report by the Council for these consent holders.

A separate report covers the results of the Council's monitoring programmes associated with the air discharge permits held by some of these industries.

The Lower Waiwhakaiho River has been identified by the Council as a resource of regional significance that has demonstrated evidence of adverse impact from catchment-wide point and diffuse source pollution and other river usage. This is apparent particularly during periods of low flow accentuated by abstraction related to operation of the hydroelectric power station at Mangamahoe. The Mangaone Stream has also been identified in Appendix IA of the *Regional Fresh Water Plan for Taranaki* as a stream of high ecological value. This tributary of the Waiwhakaiho River has particularly high native fish diversity, including the presence of threatened species. It is therefore important that monitoring of the Waiwhakaiho River and Mangaone Stream is continued, particularly in relation to any major wastewater or stormwater discharges, in order that these water bodies are safeguarded as resources for the area.

### 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 though annual programmes;
- the resource consents held by the companies in the Waiwhakaiho Catchment;
- the nature of the monitoring programme in place for the period under review; and
- a description of the activities and operations conducted on each consent holder's site.

**Section 2** - **14** present the results of monitoring at each individual site during the period under review, including scientific and technical data, the results, their interpretations, and their significance for the environment, and presents recommendations to be implemented in the 2023/24 monitoring year.

**Section 15** presents the results of receiving water quality monitoring for the Mangaone Stream and the Waiwhakaiho River, their interpretation and their significance.

**Section 16** discusses the general site performance of the consent holders within the catchment, their interpretation, and their significance for the environment in the immediate vicinity of the sites under discussion.

Section 17 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 socialeconomic 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 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.<sup>1</sup>

<sup>&</sup>lt;sup>1</sup> The Council has used these compliance grading criteria for more than 20 years. They align closely with the 4 compliance grades in the MfE Best Practice Guidelines for Compliance, Monitoring and Enforcement, 2018

### 1.2 Resource consents

The locations of the consent holders monitored under this programme and the chemical sampling sites are shown in Figure 1.

A total of 19 consents were held to discharge stormwater, wastewater, and leachate from the industrial area at Fitzroy, New Plymouth to the lower Waiwhakaiho River and Mangaone Stream during the period under review (Table 1). Each of these permits was issued by the Council as a resource consent under Section 87(e) of the RMA. Details of the resource consents are summarised in the table below. Summaries of the conditions attached to each permit are set out in the 'Evaluation of performance' section for each consent holder.

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 Companies during the period under review.

Stormwater discharge consents have standardised special conditions that:

- Require the consent holder to adopt the best practical option to minimise effects.
- Limit the area from which stormwater can be discharged.
- Require the use of a stormwater discharge system.
- Limit constituents of the discharge, with specific regard to pH, suspended solids and oil and grease.
- Require that the discharge does not cause certain effects in the receiving waters.
- Require that the consent holder maintains a spill contingency plan to ensure that in the event of an unforeseen situation, the chances of a spillage resulting in an unauthorised discharge leaving the site are minimised.
- Require that the consent holder maintain and adhere to a management plan to ensure that the consent holder examines the activities taking place on site and puts appropriate controls in place to minimise the potential for stormwater contamination to occur due to routine activities.
- Require the consent holder to notify the Council prior to making any changes to the site or site processes; and
- Provide for lapse (where applicable) and review of the consent.

Consent holder	Consent No	No Description		Next review date	Expiry date
Bunnings Limited (Ravensdown Ltd old site)	3865-4.1	To discharge stormwater from a fertiliser storage depot onto and into land and into the Mangaone Stream and into the Waiwhakaiho River	2020	June 2025	June 2026
	0021-4	To discharge stormwater from an industrial site into the Waiwhakaiho River	2015	June 2026	June 2032
Dialog Eitzrov I tol	9853-2	To discharge stormwater from an industrial site into the Waiwhakaiho River	2015	June 2026	June 2032
	9981-1	To discharge stormwater from an industrial site into the Waiwhakaiho River	2014	June 2026	June 2032
	9982-1	To discharge stormwater from an industrial site into the Mangaone Stream	2014	June 2026	June 2032
Downer EDI Works Ltd	3917-3	To discharge treated stormwater and minor amounts of treated air scrubber wastewater from an asphalt manufacturing plant onto land and into the Mangaone Stream	2015	June 2026	June 2032
Enviro NZ	10109-1	To discharge stormwater from an industrial site into the Puremu Stream and an unnamed tributary of the Mangaone Stream	2015	June 2026	June 2032
Firth Industries Ltd	irth Industries Ltd 0392-4 To discharge stormwater and treated wastewater into the Waiwhakaiho River		2015	June 2026	June 2032
Holcim NZ Limited	Holcim NZ Limited 4539-2 To discharge stormwater and treated wastewater from truck washing at a concrete batching plant in the Mangaone Stream in the Waiwhakaiho Catchment		2008	-	June 2026
KiwiRail Holdings Ltd	dings Ltd 3528-3 To discharge stormwater into the Waiwhakaiho River		2017	-	June 2026
New Zealand Railways CorporationTo discharge stormwater from the Smart Road Rail Terminal into an unnamed tributary of the Mangaone Stream, and into the Mangaone Stream in the Waiwhakaiho Catchment		2009	-	June 2026	
New Plymouth District Council	1275-3	To discharge stormwater from the Katere and Waiwhakaiho industrial areas into the Mangaone Stream via multiple outfalls between Egmont Road and the confluence with the Waiwhakaiho Riveralso 1697032E-5677145N, 1696882E-5677087N, 1696734E-5676990N, 1696545E-5677175N, 1696755E-5677622N, 1696757E-5677671N, 1696771E-5677957N, and 1696777E-5677965N	2008	-	June 2026
new rymouth District council	4984-2	To discharge leachate from a former landfill site into groundwater, adjacent to the Waiwhakaiho River	2016	June 2026	June 2032
	5163-2	To discharge stormwater from the Waiwhakaiho industrial area into the Waiwhakaiho River via multiple outfalls between the State Highway 3 bridge and the confluence with the Mangaone Stream.	2008	-	June 2026
Ravensdown Ltd	avensdown Ltd 10513-1.1 To discharge stormwater from a fertiliser storage site onto and into land and into the Mangaone Stream		2020	June 2026	June 2032
Taranaki Sawmills Ltd	Garanaki Sawmills Ltd         3491-3.0         To discharge stormwater from a timber treatment site into the Mangaone Stream		2021	June 2026	June 2038
Technix Group Ltd	nix Group Ltd 0291-3 To discharge stormwater from an industrial site into the Waiwhakaiho River		2014	June 2026	June 2032
Urban Aspect Limited	10008-1	To discharge stormwater onto and into land and into the Mangaone Stream	2015	June 2026	June 2032
Waste Management NZ Ltd	Management NZ Ltd 10430-1 To discharge stormwater from a waste depot into an unnamed tributary of the Mangaone Stream		2017	June 2026	June 2032

#### Table 1 Resource consents for discharges to the Mangaone Stream and lower Waiwhakaiho River from New Plymouth industrial area



Figure 1 Lower Waiwhakaiho industrial catchment and sampling sites

# 1.3 Monitoring programme

### 1.3.1 Introduction

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

The Council may therefore make and record measurements of physical and chemical parameters, take samples for analysis, carry out surveys and inspections, conduct investigations and seek information from consent holders. The monitoring programme for the industries in the Lower Waiwhakaiho Catchment consisted of four primary components.

### 1.3.2 Programme liaison and management

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

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

### 1.3.3 Site inspections

Council undertook 37 inspections during the monitoring period. Inspections focused on general housekeeping, effects on stormwater quality and wastewater disposal. Water and waste treatment systems and areas where chemicals or products are stored or transferred are given particular attention. Sources of data being collected by the consent holder were identified and assessed, so that performance in respect of operation, internal monitoring, and supervision could be reviewed by the Council. The neighbourhood was also surveyed for environmental effects.

The frequency of inspection varied depending on the type of activity at the site, the outcome of previous inspections, and the stage of any investigation of unsourced discharges of contaminants.

### 1.3.4 Chemical sampling

The number and location of sites sampled, the frequency and conditions of sampling, and the range of water quality parameters determined have changed since this combined monitoring programme commenced in 1988. This evolution has occurred as knowledge of the characteristics of the discharges and waters that receive them has been gained, and as the number and composition of licensed discharges has varied.

Not all parameter results from sampling are published herein, only those relevant to assessing compliance and effects. All results are available upon request.

#### 1.3.4.1 Surface water surveys

The discharge and receiving water chemical sampling sites are shown in Figure 1. As there are no samples taken downstream of the confluence of the Mangaone Stream and Waiwhakaiho River, the surface water surveys of these two water bodies and their discharges may be carried out separately.

Wet weather sampling was carried out on 29 May 2024 for the Mangaone Stream and the Waiwhakaiho River. Samples were also collected from both the Waiwhakaiho River and Mangaone Stream in conjunction with groundwater monitoring. The Mangamiro Stream in relation to KiwiRail discharge was not sampled as it is no longer accessible.

#### 1.3.4.2 Discharge sampling

Taken in conjunction with wet weather inspections and wet weather river surveys, 37 samples of individual site discharges were collected and analysed. The results of the discharge monitoring are discussed in the relevant section based on the consent holder responsible for that discharge, and the receiving water results are discussed in Section 15.

#### 1.3.4.3 Groundwater surveys

Groundwater sampling was undertaken in the vicinity of the old Bewley Road landfill and Bunnings, with total of 10 groundwater samples being collected for analysis. Groundwater sampling is conducted independently of the wet weather surface water sampling. A discharge drain and three receiving water sites are sampled in conjunction with the Bewley Road groundwater monitoring, and two receiving water sites are sampled in conjunction with the Bunnings groundwater monitoring. The location of the sites sampled during the groundwater surveys are shown in Figure 2.

Where possible, a summary of previous monitoring data for a particular site is provided for comparative purposes. Unless specifically stated all metals results are from acid soluble analysis.

#### 1.3.4.4 Streambed sediment sampling

Dry weather sampling of the Mangaone Stream sediments did not occur this monitoring period. Sediment sampling is carried out triennially and will next be undertaken in the 2024/25 monitoring year.



Figure 2 Groundwater monitoring bore locations and associated surface water sampling sites

### 1.3.5 Biomonitoring surveys

Biological surveys are used to determine the impacts that discharges may cause over a period of time. This is distinct from chemical surveys, which only give detailed information on the constituents of a discharge at the time of sampling and not previous discharge characteristics. Biological surveys also directly indicate any significant adverse effects of discharges upon in-stream flora and fauna, so that cause-effect relationships do not have to be established as for critical levels of individual chemical parameters. Although, variation in habitat must also be taken into consideration.

### 1.3.5.1 Macroinvertebrate surveys

Samples of streambed macroinvertebrates and algae are collected from three sampling sites in the Lower Waiwhakaiho River and five sites in the Mangaone Stream on a biannual basis. During the 2023/24 period, these surveys were conducted on 14 November 2023 and 20 March 2024.

### 1.3.5.2 Fish survey

Fish surveys were originally undertaken at two sites in the Mangaone Stream. In the 2004/05 fish survey report, it was proposed that future surveys incorporate more sites in an attempt to compare sites with similar habitats. This was to ensure that discharges to the Mangaone Stream are not presenting a barrier to upstream migration. A fish survey was conducted in March 2024. The next survey is scheduled to be undertaken during the 2026/27 monitoring year.

# 2. Bunnings Limited

### 2.1 Site description

Previously operating as the New Plymouth depot of Ravensdown Fertiliser Co-operative Ltd (Ravensdown), the Bunnings Limited (Bunnings) site occupies an area of approximately 7ha bounded by Devon, Smart and Katere Roads, and the Smart Road rail yard (Figure 3). It is also bordered on the eastern boundary by the Mangaone Stream.

While operating as Ravensdown, the depot previously received, bagged, blended and distributed fertilisers in various forms, namely superphosphate, lime, dolomite and imported high analysis products such as ammonium sulphate, urea, triple super, potassium chloride (potash) and monoammonium and diammonium phosphates (MAP & DAP). Small volumes of trace element fertilisers such as zinc sulphate were also handled through the store. Approximately 250,000 tonnes of fertiliser were distributed per annum.



Figure 3 Aerial view of Bunnings site with associated sampling points

Prior to 1 July 1997, Farmers Fertiliser Ltd manufactured super phosphate on the site by acidulation of phosphate rock. Sulphuric acid was manufactured from elemental sulphur. A chrome sulphate plant was run in conjunction with the sulphuric acid plant. Hydrofluorosilicic acid was produced as a by-product of the rock acidulation process. The manufacturing plants were all decommissioned and subsequently removed from site, with the acid plant being the last plant to be removed, which was completed during the 2002/03 year. After decommissioning, the acid tank was retained for storage of liquid wastes containing high levels of fertiliser.

Stormwater from the site discharges to both the Waiwhakaiho River and the Mangaone Stream.

Drainage from western and northern parts of the site flows to the Waiwhakaiho River, via an underground drain that runs alongside Devon Road to the Smart Road intersection, where it meets a piped tributary of the river. The piped tributary, known as McLeod's Drain, originates in the Queens Road area and runs for approximately 600m beneath lower Smart Road from the railway. The drain then joins the river 50m

downstream of Smart Road. The mean flow of the tributary is approximately 10L/s. All of the former manufacturing plants on the Bunnings site were in this catchment.

Drainage from southern and eastern parts of the site flows to the Mangaone Stream at several points. The catchment area of about 2.8ha includes the (road and rail) transfer area for fertilisers. Part of the fertiliser transfer area is on land owned by KiwiRail. The main discharge from this catchment is via a short drain that meets the Mangaone Stream about 150m above the Katere Road Bridge. The Mangamiro Stream, which is a small, piped tributary of the Mangaone Stream, exits immediately upstream of the stormwater drain. The other discharge points to the stream are mainly roof drain outlets. Ravensdown ceased operations and vacated the site in November 2018, following the purchase by Bunnings.

Devon 662 Partnership Ltd transferred to Bunnings in February 2024 Resource Consent **3865-4.1** to discharge stormwater from a fertiliser storage depot onto and into land and into the Mangaone Stream and into the Waiwhakaiho River. This consent combined the activities of the two prior consents **3140-2** and **3865-3**. It contains the standardised conditions as well as two extra conditions requiring the maintenance of groundwater bores and foot access to water sampling sites.

## 2.2 Results

### 2.2.1 Inspections

Two routine compliance monitoring inspections were conducted, on 14 August 2023 and 20 June 2024, at the site during the monitoring period to assess compliance with resource consent conditions.

The site was empty and no activity was occurring during either inspection. The site was clean and tidy. Regrassing had been undertaken place to aid in better absorption for storm water. Despite heavy rainfall preceding the August inspection, the site appeared to be containing storm water generated within it.

### 2.2.2 Results of discharge monitoring

Stormwater discharge samples were collected from one location on the Bunnings site, where stormwater discharges to the Mangaone Stream, on 29 May 2024.

The main discharge to the Mangaone Stream, made up of stormwater and/or groundwater seepage, is sampled from a small wetland area in the south-eastern corner of the site (site code STW002003), (Figure 3). The results of monitoring for the period under review are presented in Table 2. All results were within consented limits. Monitoring for metals was not conducted at this site during the review period.

The nutrient concentrations have been showing a decreasing trend. Nitrate-N + Nitrite-N, DRP and total phosphorus concentrations were the lowest historically measured at this site.  $NH_4$  was also low, with the lowest value recorded during the 2022/23 year.

Parameters	Units	29 May 2024	Consent limits
рН	рН	7.4	6.0 – 9.0
Temperature	°C	11.1	-
Conductivity	mS/m	16.8	-
Suspended solids	g/m³	4	100
Turbidity	NTU	5.4	-
Nutrients			
NH₃	g/m³	0.003	0.025
NH <sub>4</sub>	g/m³	0.54	-

Table 2 Bunnings wetland stormwater sampling results, site STW002003

Parameters	Units	29 May 2024	Consent limits
NNN	g/m³	0.56	-
Total Phosphorus	g/m³	0.043	-
DRP	g/m³	0.010	30

### 2.2.3 Results of groundwater monitoring

Since the 2002/03 period, a full survey of the groundwater in the immediate vicinity of the site has been undertaken at the five bores on two occasions during each monitoring year, along with associated receiving water monitoring (two surface water sites). Bores GND0518, GND1217, and GND1218 are no longer available for sampling. The first round of sampling was carried out during the summer period, on 12 January 2024, while the second was conducted on 5 May 2024 during the autumn period. The locations of the monitoring bores are shown in Figure 2. The results of the sampling are given in Table 3 and Table 4 and compared to the maximum acceptable value (MAV) of the NZ Drinking Water standards 2022 (DWSNZ).

Overall, the results from the surveys were within the historical ranges and below the DWSNZ MAVs, except for sulphate levels at GND0517 that exceeded the DWSNZ MAV and was the highest measured on records (Figure 3). However, GND0517 bore is not used for potable supply. Concentrations of unionised ammonia and ammoniacal nitrogen were within the historical range at GND2346, and showed a decrease compared to last monitoring year at GND0517.

Parameter	Units	12 Jan 2024	5 May 2024	Range	Median
Conductivity	mS/m	40.6	39.9	36.7-69	39.7
рН	-	8.2	8.1	7.2-8.2	8.0
NH₃	g/m³	0.055	0.041	0.014-0.062	0.037
NH <sub>4</sub>	g/m³	0.89	0.92	0.79-2.58	0.89
Total phosphorus	g/m³	0.196	0.199	0.10-0.25	0.19
Fluoride	g/m³	0.14	-	0.12-0.61	0.15
SO4 <sup>2-</sup>	g/m³	< 0.5	< 0.5	< 0.5-0.90	0.38

Table 3 Groundwater quality measurements at GND2346 during 2023/24 compared to the historical values

Table 4 Groundwater quality measurements at GND0517 during the 2023/24 compared to the historical values

Parameter	Units	12 Jan 2024	5 May 2024	Range	Median
Conductivity	mS/m	411	412	73.2-921	210
рН	-	7.0	6.8	6.6-9.3	7.4
NH <sub>3</sub>	g/m³	0.3	0.153	0.0065-964	0.767
NH <sub>4</sub>	g/m³	68	57	1.54-990	64.5
Total phosphorus	g/m³	0.103	0.046	0.046-22.2	0.572
Fluoride	g/m <sup>3</sup>	0.2	-	0.14-0.55	0.22
SO4 <sup>2-</sup>	g/m <sup>3</sup>	930	830	76-930	169

Results of instream sampling for the Mangaone Stream at two sites (MGO000151 and MGO000155) are also shown in Table 5. These sites are adjacent to the eastern and southeastern boundary of the site (Figure 2). The higher unionised ammonia and ammoniacal concentrations at MGO000155 compared to MGO000151 show that groundwater from the site continues to influence the stream, however, the concentrations showed a decrease compared to last year's measurements. There were no significant effects noted in the Waiwhakaiho River or Mangaone Stream during wet weather surveys, as noted in section 15.1.

Parameter	Units	MGO000151 12 Jan 2024	MGO000155 12 Jan 2024	MGO000151 5 May 2024	MGO000155 5 May 2024
Conductivity	mS/m	19.0	20.0	17.7	18.3
рН	-	7.53	7.62	7.3	7.3
NH₃	g/m³	0.00101	0.0024	0.00049	0.00086
NH <sub>4</sub>	g/m³	0.062	0.122	0.094	0.145
Total phosphorus	g/m³	0.015	0.013	0.013	0.015

 Table 5
 Results from the receiving environment at sites MGO000151 and MGO000155

Figure 4 presents the historical measurements at the five bore locations within the former Ravensdown site. It highlights that following the cessation of monitoring at bores GND0518, GND1217, and GND1218 due to restricted access, the concentrations of sulphate at GND0518 and GND1217, fluoride at GND1218, and pH levels at GND1217 and GND1218 have consistently exceeded the MAVs outlined in NZDWS. Additionally, these parameters showed some degree of variability over time.

Depending on the construction timeline, a mutually agreed upon date will be established between the Council and the new consent holder, Bunnings, for the re-drilling of the bores. Construction activities and soil disturbance have the potential to induce bore collapse and alter the leachate flow into the groundwater.



Figure 4 Historical variability of fluoride, pH, unionised ammonia, ammoniacal nitrogen, sulphate, and total phosphorus at the five groundwater bores

**Note:** Only GND0517 and GND2346 were monitored during the 2023/24 monitoring year. To see the data variability of unionised ammonia and ammoniacal nitrogen the y axis limit was set at 20 and 100g/m<sup>3</sup>, respectively. Therefore, data higher than these limits are not shown for these parameters, mainly between 2010 and 2020 at bore GND0517

## 2.3 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 Bunnings. 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 Bunnings' conditions in resource consents or provisions in Regional Plans.

Purpose: To discharge stormwater from a fertiliser storage depot onto and into land and into the Mangaone Stream and into

# 2.4 Evaluation of performance

A tabular summary of Bunnings's compliance record for the year under review is set out in Table 6.

the Waiwhakaiho River					
	Condition requirement	Means of monitoring during period under review	Compliance achieved?		
1. Ado	lopt best practical option	Inspections	Yes		
2. Lim	nit on catchment area	Inspections	Yes		
3. Lim cor	nits on discharge contaminant ncentrations	Discharge sampling	Yes		
4. Cor and poi	nsent holder to ensure there is clear d safe all-weather access to sampling int	Inspections	Yes		
5. Lim	nit on effects in receiving water	Inspections and sampling	Yes		
6. Pro	ovide contingency plan	N/A	N/A		
7. Pro	ovide management plan	N/A	N/A		
8. Ma	aintenance of groundwater bores	Inspections	No. No access to 3/5 bores		
9. Ma	aintenance of access to sampling sites	Inspections. Note: IND004002 no longer exists now that the site has been reinstated	Yes		
10. No	tification of changes	Inspection	Yes		
11. Rev	view condition	Next option for review in June 2025, recommendation attached in Section 16.6	N/A		
Overall Overall	l assessment of consent compliance an l assessment of administrative perform	d environmental performance in respect of this consent ance in respect of this consent	High Good		

 Table 6
 Summary of performance for Bunnings Limited Consent 3865-4.1

N/A = not applicable

During the period under review, Bunnings Limited demonstrated a good level of environmental and high administrative performance and compliance with their resource consent and RFWP as defined in Appendix II. Three of the five monitoring bores were not able to be accessed for sampling (as required by consent conditions). These may need to be reinstated.

# 3. Dialog Fitzroy

## 3.1 Site description

Dialog Fitzroy Ltd (Dialog) (previously Fitzroy Engineering Group Ltd) operates an engineering business which involves the manufacturing of heavy engineering components and structures. Activities at the site also include abrasive blasting and painting.

The site was previously leased from Technix Group Ltd (Technix), and the stormwater discharges from Dialog's activities were covered under consents held by Technix. In 2013, Dialog purchased the part of the property they operate on from Technix (Figure 5) and Resource Consent **0021-3** was transferred to Dialog. Resource Consent **0291-3** was split into two consents as the northern area covered by this consent was now owned by Dialog, and a new consent number (**9853-2**) was assigned to this catchment area.

Dialog holds four consents to discharge stormwater, **0021-4**, **9853-2**, **9981-1** and **9982-1**. These contain the standardised conditions given in Section 1.2. Consents **0021-4** and **9853-2** prohibit the discharge of contaminants from hydrotesting and require the notification of any outdoor hydrotesting being undertaken. The permits are attached to this report in Appendix I.



Figure 5 Aerial view of Dialog Fitzroy Ltd site and associated sampling points

The stormwater area for Consent **0021-4** covers the south-west section of Dialog Fitzroy's property. The stormwater drainage system runs from the south and east boundary towards the east boundary, the drainage then runs north towards the Waiwhakaiho River and discharges into the river via a stormwater drain (STW002001). There are multiple sumps along this system to collect stormwater.

The drainage system for the discharge covered by Consent **9853-2** begins in the adjacent Technix property, continues north through Dialog's section, and discharges into the Waiwhakaiho River via a stormwater drain

(STW001021). The system has a sump on the southern boundary and another attached to the blast and paint shop. A dangerous goods storage shed is also in this catchment area.

Dialog undertakes infrequent hydrotesting processes on large fabrications, and also operations involving the passivating of stainless steel. These activities produce wastewater that may contain contaminants such as penetrant dye and rust inhibitor, and also can be acidic. These activities sometimes occur outside. As per their operating procedures, the wastewater from these processes is bunded using tarpaulin sheets, and any drains are blocked with sandbags. Once that activity is completed the waste is removed by a waste management specialist. Dialog continue to provide and maintain a stormwater management plan and spill contingency plan.

### 3.2 Results

#### 3.2.1 Inspections

Three routine compliance monitoring inspections were conducted at the site during the monitoring period to assess compliance with resource consent conditions. These inspections were conducted on 27 October 2023, and 8 February and 20 June 2024.

Storm water drains around the site appeared to be unobstructed with sediment socks positioned in all grates. When flowing, the discharge was directed to the designated discharge point. The discharge appeared relatively clear as it entered the river.

Hazardous substances were in appropriate areas and spill kits were observed around the site.

### 3.2.2 Results of discharge monitoring

There are two routine sampling points for monitoring of stormwater discharges from the Dialog Fitzroy site to the Waiwhakaiho River. These sampling points are opposite Dialog Fitzroy's plate shop (Consent 0021-4, site STW001021), and opposite Dialog Fitzroy's blast and paint shop (Consent **9853-2**, site STW002001). The blast and paint shop discharge point also contains stormwater from the area covered by the Technix Consent **0291-3**. Both discharge points were sampled twice during the monitoring year. The results of sampling from these locations are presented in Table 7. The majority of the results complied with consent conditions. Suspended solids in the sample collected on 29 May 2024 exceeded the 100g/m<sup>3</sup> limit, and this is discussed further in section 3.3 below.

Parameters	Units	STW002001 27 Oct 2023	STW001154 27 Oct 2023	Consent limits
Temperature	°C	13.7	15.1	-
рН	рН	7.2	7.1	6.0 - 9.0
Conductivity	mS/m	12.6	10.4	-
Suspended Solids	g/m³	19	6	100
Turbidity	FNU	17.1	-	-
Total hydrocarbons	g/m³	< 0.7	1.5	15*

 Table 7
 Dialog Fitzroy stormwater sampling results collected during discharge only survey

Table 8Dialog Fitzroy stormwater sampling results collected during wet weather survey

Parameters	Units	STW001021 29 May 2024	STW002001 29 May 2024	Consent limits
Temperature	°C	10.3	11.6	-
рН	рН	7.0	7.4	6.0 - 9.0
Conductivity	mS/m	14.7	8.3	-

Parameters	Units	STW001021 29 May 2024	STW002001 29 May 2024	Consent limits
Suspended solids	g/m³	85	137	100
Turbidity	FNU	38	188	-
Total hydrocarbons	g/m³	< 0.7	< 0.7	15*

\*Hydrocarbons measured in place of oil & grease

## 3.3 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 Dialog. During the year matters may arise which require additional activity by the Council, for example provision of advice and information, or investigation of potential or actual causes of non-compliance or failure to maintain good practices. A pro-active approach, that in the first instance avoids issues occurring, is favoured.

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

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

Table 9 below sets out details of any incidents recorded, additional investigations, or interventions required by the Council in relation to Dialog's activities during the 2023/24 period. This table presents details of all events that required further investigation or intervention regardless of whether these were found to be compliant or not.

Date	Details	Compliant (Y/N)	Enforcement Action Taken?	Outcome
29 May 2024	Total suspended solid concentration exceeded the consent limit	N	Ν	Site investigation found that a drain sock had been ripped, this was replaced. No further action was taken by Council.

Table 9 Incidents, investigations, and interventions summary table

### 3.4 Evaluation of performance

A tabular summary of the consent holder's compliance record for the period under review is set out in Table 10 to Table 13.

 Table 10
 Summary of performance for Dialog Fitzroy Consent 0021-4

Pu	Purpose: To discharge stormwater from an industrial site into the Waiwhakaiho River				
	Condition requirement	Means of monitoring during period under review	Compliance achieved?		
1.	Adopt best practicable option to prevent or minimise adverse effects	Inspections, liaison with consent holder	Yes		
2.	Catchment not to exceed 3.3ha	Inspections	Yes		
3.	No discharge of contaminants from hydrotesting activities	Inspections	Yes		
4.	Notification of outdoor hydrotesting	Liaison with consent holder	Yes		
5.	Limits on contaminants in discharge	Sampling	Yes		

Pu	Purpose: To discharge stormwater from an industrial site into the Waiwhakaiho River				
	Condition requirement	Means of monitoring during period under review	Compliance achieved?		
6.	Discharge cannot cause specified adverse effects beyond mixing zone	Visual assessment at inspection, sampling and biomonitoring	Yes		
7.	Maintain a spill contingency plan	Review of documentation received. Latest version received June 2023	Yes		
8.	Maintain and update and adhere to Stormwater Management Plan	Review of documentation received. Latest version received June 2023	Yes		
9.	Notification prior to significant changes to processes or operations	Inspections and liaison with consent holder	N/A		
10.	Provision for review of consent	Next option for review in June 2026	N/A		
Ov coi	erall assessment of consent compliand	High			
Ov	erall assessment of administrative per	formance in respect of this consent	nign		

N/A: not applicable

### Table 11 Summary of performance for Dialog Fitzroy Consent 9853-2

Pu	Purpose: To discharge stormwater from an industrial site into the Waiwhakaiho River				
	Condition requirement	Means of monitoring during period under review	Compliance achieved?		
1.	Adopt best practicable option to prevent or minimise adverse effects	Inspections, liaison with consent holder	Yes		
2.	Catchment not to exceed 3.3ha	Inspections	Yes		
3.	No discharge of contaminants from hydrotesting activities	Inspections, review of sample results	Yes		
4.	Notification of hydrotesting	Liaison with consent holder	Yes		
5.	Limits on pH, suspended solids, oil and grease and chloride in discharge	Sampling	No. One suspended solid result exceeded consent limit		
6.	Discharge cannot cause specified adverse effects beyond mixing zone	Visual assessment at inspection and receiving water sampling and biomonitoring	Yes		
7.	Maintain and update a Contingency Plan	Review of documentation received. Latest version received June 2023	Yes		
8.	Site to operate in accordance with a Stormwater Management Plan	Review of documentation received. Latest version received June 2023	Yes		
9.	Notification prior to significant changes to processes or operations	Inspections and liaison with consent holder – no significant changes during period	Yes		
10.	. Provision for review of consent	Next option for review in June 2026	N/A		
Ov coi Ov	rerall assessment of consent compliand nsent rerall assessment of administrative per	Good High			

N/A: not applicable

#### Table 12 Summary of performance for Dialog Fitzroy Consent 9981-1

Pu	Purpose: To discharge stormwater from an industrial site into the Waiwhakaiho River				
	Condition requirement	Means of monitoring during period under review	Compliance achieved?		
1.	Best practicable option to prevent or minimise adverse effects	Inspections	Yes		
2.	Catchment area not to exceed 1.8ha	Inspections	Yes		
3.	Concentration limits upon potential contaminants in discharge	Chemical sampling	Yes		
4.	Discharge cannot cause specified	Visual assessment at inspection, receiving water	Yes		

Purpose: To discharge stormwater from an industrial site into the Waiwhakaiho River							
Means of monitoring during period under review	Compliance achieved?						
sampling and biomonitoring							
Review of documentation received. Latest version received June 2023	Yes						
Review of documentation received. Latest version received June 2023	Yes						
Liaison with consent holder	Yes						
Next option for review in June 2026	N/A						
Overall assessment of consent compliance and environmental performance in respect of this consent							
e f	Means of monitoring during period under review         e       sampling and biomonitoring         Review of documentation received. Latest version received June 2023         Review of documentation received. Latest version received June 2023         f         Liaison with consent holder         Next option for review in June 2026         nce and environmental performance in respect of this consent						

N/A: not applicable

Table 13 Summary of performance for Dialog Consent 9982-1

Purpose: To discharge stormwater from an industrial site into the Mangaone Stream							
	Condition requirement	Means of monitoring during period under review	Compliance achieved?				
1.	Best practicable option to prevent or minimise adverse effects	Inspections	Yes				
2.	Catchment area not to exceed 1.3ha	Inspections	Yes				
3.	Concentration limits upon potential contaminants in discharge	Sampling	Yes				
4.	Discharge cannot cause specified adverse effects beyond mixing zone	Visual assessment at inspection and receiving water sampling and biomonitoring	Yes				
5.	Prepare and maintain Contingency Plan	Up to date as of April 2018	Yes				
6.	Preparation of Stormwater Management Plan	Up to date as of April 2018	Yes				
7.	Consent holder to notify Council of significant changes to processes or operations	Liaison with consent holder	Yes				
8.	Provision for review of consent	Next option for review in June 2026	N/A				
Ov	erall assessment of consent compliance and	High					
Ov	erall assessment of administrative performa	High					

N/A: not applicable

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

# 4. Downer EDI Works Ltd

### 4.1 Site description

Downer EDI Works Ltd (Downer) operates an asphalt manufacturing plant at a site off Rifle Range Road (Figure 6). A depot for maintenance, parking and storage of equipment and materials used in roadmaking is also on the site. Ownership of the plant has changed several times, with Works Civil Construction previously taking over the site from Technix Industries Ltd in November 1997.



Figure 6 Aerial view of Downer site with associated sampling points

In the manufacturing process, aggregate metal is dried by gas heating and is mixed with heated bitumen to form hot-mix bitumen. Diesel oil and/or kerosene may be added to adjust the consistency of the mix. The product is loaded onto trucks for transport. Dust and gases generated from the process are treated in a wet scrubber. Scrubber effluent is treated in four settling ponds then reused.

The asphalt plant stormwater catchment contains raw materials, comprising various grades of aggregate, static bitumen tanks, bunded emulsion tanks, and stores housing bitumen additives and plant maintenance materials, such as chain oil.

The depot includes an administration building, vehicle and equipment maintenance workshops, aggregate stores, and an area for parking motor vehicles and equipment.

The plant is situated on the right bank of the Mangaone Stream near its confluence with the Waiwhakaiho River. Stormwater from this area drains via a three-stage oil separator to a small, constructed wetland that also receives piped water from naturally-occurring springs in the area. Stormwater from the eastern side of the site which contain aggregate storage and the asphalt plant is treated by a three-stage interceptor prior to discharge to the network. There is also a truck wash facility in the depot area, the drainage from which is currently diverted to sewer at all times by means of a locked diversion valve.

Drainage from the asphalt plant settling ponds (which have a baffle installed on the outlet to contain floatables) and the depot both discharge via the small wetland, to the Mangaone Stream immediately above the Rifle Range Road Bridge.

Downer holds Consent **3917-3** to discharge treated stormwater from an asphalt manufacturing plant onto land and into the Mangaone Stream. It contains all eight of the standardised special conditions as set out in section 1.2. The permit is attached to this report in Appendix I.

### 4.2 Results

### 4.2.1 Inspections

Two routine compliance monitoring inspections were conducted at the site during the monitoring period to assess compliance with resource consent conditions, these inspections were conducted on 31 October 2023 and 1 February 2024. An additional follow up inspection was conducted on 12 December 2023.

An inspection of the areas around the asphalt plant found instances of improperly stored substances that could have damaging effects to the environment should they find their way into storm water channels. Downer staff advised that substances left in the numerous IBC containers at that end of the site were solidified residue of broken emulsion that would not cause any environmental concern. However, it was observed that some portions of this residue were in liquid form which could cause concern if any of the IBC containers leaked and could then potentially enter storm water drains. The containers lacked any visible measures such as bunding or any other type of adequate storage methods. On the main site along the embankment near the road maintenance areas were multiple instances of improperly stored hazardous materials, namely buckets of Benzoclean that may have significant effects to aquatic life if it leached out into storm water drains from the wooden pallet where the multiple containers were placed. Other potential contaminants were identified in containers improperly stored outside on a pallet, including Diphenylmethane-Diisocyanate in the form of Coldgrip Resin Binder. Other potential contaminants were located on a wooden pallet which were largely unidentified though smelled of hydrocarbon. Previous inspections have highlighted a need for better storage around potentially hazardous substances although it appeared that little had been done to ensure any longer lasting measures had been implemented to mitigate the chances for any potential contaminant entering discharges to storm water. Downer staff were advised by the Inspecting Officer that this was not best practice and that they should ensure hazardous materials were stored in such a way that they do not pose a risk to the environment. The site was considered to be non-compliant at the time of the inspection and an Abatement notice was issued requiring Downer to undertake works to comply with Resource Consent 3917-3.0.

A follow-up inspection was undertaken on 12 December 2023 in relation to Abatement Notice EAC-25500. It was noted that the majority of the IBC containers had been removed, with just two remaining in the area at the back of shed by the Asphalt Plant. Downer now intends to dispose of IBC containers instead of storing them. Future options include construction of a bunded area or storage in a shed adjacent to the plants. It was noted that the closest spill kit was located in the sand shed, if a spillage did occur from an IBC behind the Asphalt plant this would involve a fair distance to obtain. It was noted that the storm water drains behind the Asphalt plant contained a large amount of sediment and the Inspecting Officer advised staff that this area could be kept clean by good housekeeping to avoid sediment entering system. Rubbish was observed by the storm water drains around the wetland area that could cause blockages. Daily monitoring and removing of this material would be best practice. The road maintenance area where materials containing hydrocarbons had stored on a pallet had been cleaned and disposed of appropriately. The containers of Coldgrip Resin Binder that contained Diphenylmethane-Diisocyanate that had been stored on pallets had been placed back in the Chemical Container for safe storage. Staff advised that upgraded

procedures would be implemented in future to deal with site monitoring and compliance. It was considered that resource conditions were being complied with at the time of the inspection.

The final compliance monitoring inspection of the year found the site to be tidy with no rubbish around storm water drains. The road marking area was clean with no rubbish and chemicals were stored in an appropriate containment area. The asphalt site contained no IBC containers and sediment around the storm water drains had been cleared. There were no issues with the scrubber wastewater area. It was noted that the wash bay area needed to be cleared of sediment and the interceptors checked. There were no visual effects in the tributary below the discharge point.

### 4.2.2 Results of discharge monitoring

Chemical monitoring of discharges from the site of Downer EDI Works Ltd takes place at two points. The scrubber settling pond effluent discharges to the onsite wetland with a sample of the effluent collected from pond outlet (site IND002002). Discharge from the pond outlet is then combined with stormwater from the depot and is treated in the oil separator and constructed wetland. The combined discharge is sampled at the outlet to the Mangaone Stream (site MGO000189).

The discharge from the scrubber ponds is often highly turbid, however, further "treatment" occurs in the constructed wetland. The discharge to the wetland is usually a grey colour and contains a high concentration of fine suspended solids.

The results of chemical monitoring of the scrubber pond effluent and combined stormwater flows for the period under review are given in Table 14 and compared to the limits set out in the consent. The results from IND002002 contained high levels of suspended solids on both sampling occasions, however the consent limits apply to the discharge (MGO000189).

Parameters	Units	IND002002	MGO000189	IND002002	Consent limits
Date		31 Oct 2023	31 Oct 2023	29 May 2024	Apply to site MGO000189
Temperature	°C	32	15.7	14	-
рН	рН	7.5	6.7	7.8	6.0 - 9.0
Conductivity	mS/m	50.1	23.3	23.1	-
Suspended solids	g/m³	118	47	175	100
Turbidity	NTU	145	-	280	-
Total hydrocarbons	g/m3	0.8	< 0.7	< 0.7	15*

Table 14Downer sampling results from the pond outlet (IND002002) and downstream of the discharge (MGO000189). The<br/>consent limits apply to the discharge

\* Hydrocarbons measured in place of oil & grease

# 4.3 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 Downer. During the year matters may arise which require additional activity by the Council, for example provision of advice and information, or investigation of potential or actual causes of non-compliance or failure to maintain good practices. A pro-active approach, that in the first instance avoids issues occurring, is favoured.

For all significant compliance issues, as well as complaints from the public, the Council maintains a database record. The record includes events where the individual/organisation concerned has itself notified the Council. Details of any investigation and corrective action taken are recorded for non-compliant events.
Complaints may be alleged to be associated with a particular site. If there is potentially an issue of legal liability, the Council must be able to prove by investigation that the identified individual/organisation is indeed the source of the incident (or that the allegation cannot be proven).

Table 15 below sets out details of any enforcement actions, incidents recorded, additional investigations, or interventions required by the Council in relation to Downer's activities during the 2023/24 period. This table presents details of all events that required further investigation or intervention regardless of whether these were found to be compliant or not.

Date	Details	Compliant (Y/N)	Enforcement Action Taken?	Outcome
31 October 2024	During a routine monitoring inspection, it was observed that resins and paints were stored inappropriately.	Ν	Abatement Notice EAC-25500	Resins and paints were relocated.

Table 15 Enforcement actions, incidents, investigations, and interventions summary table

## 4.4 Evaluation of performance

A tabular summary of the consent holder's compliance record for the period under review is set out in Table 16.

To discharge treated stormwater and minor amounts of treated air scrubber wastewater from an asphalt manufacturing plant onto land and into the Mangaone Stream

	Condition requirement	Means of monitoring during period under review	Compliance achieved?
1.	Adopt best practical option	Inspections	No. Resins and paints not stored appropriately
2.	Limit on catchment size	Inspections	Yes
3.	Limits on contaminants in discharge	Sampling	Yes
4.	Discharge cannot cause specified adverse effects beyond mixing zone	Visual assessment at inspections and receiving water sampling and biomonitoring	Yes
5.	Maintain and adhere to a stormwater management plan	Inspections and programme supervision	Yes
6.	Maintain and adhere to a spill contingency plan	Inspections and programme supervision	Yes
7.	Notify the Council of changes at site	No notification received	N/A
8.	Provision for review of consent	Next opportunity for review June 2026	N/A
Ov Ov	erall assessment of consent compliance erall assessment of administrative perfo	Improvement required High	

N/A not applicable

During the period under review, Downer EDI Works Ltd demonstrated a level of environmental performance that required improvement and a high level of administrative performance and compliance with their resource consent and RFWP as defined in Appendix II.

# 5. Enviro NZ

# 5.1 Site description

Enviro NZ (or Envirowaste Services Ltd) operates a material recovery facility (MRF) on Colson Road (Figure 7). The site receives and separates recyclable material sourced from district council kerbside collections and transfer stations for the entire Taranaki region.

Stormwater from the site discharges via retention ponds to the Puremu and Mangamiro Streams. Prior to discharge the stormwater is treated in long sediment ponds that discharge via grates to prevent litter being carried with it.



Figure 7 Aerial view of Enviro NZ site with associated sampling points

Enviro NZ holds Consent **10109-1** to discharge stormwater from an industrial site into the Puremu Stream and an unnamed tributary of the Mangaone Stream. It has nine of the standardised special conditions as set out in section 1.2. The permit is attached to this report in Appendix I.

# 5.2 Results

### 5.2.1 Inspections

Two routine compliance monitoring inspection were conducted at the site on 27 September 2023 and 1 February 2024 to assess compliance with resource consent conditions.

Inspections noted that drain socks are situated around the site. Wind strewn debris was noted around the site during both inspections and staff were asked to ensure that these are cleaned out to ensure no wind strewn rubbish becomes mobilised in storm water beyond the site. It was noted that silt fences around the site contribute to ensuring some of this is captured.

### 5.2.2 Results of discharge monitoring

Monitoring of discharges from the Enviro NZ site takes place at two points. Stormwater discharging to the Puremu Stream is sampled at STW002091 whilst stormwater discharging to the Mangamiro Stream is sampled at STW002092 (Figure 7). The results of the discharge sampling are given in Table 17.

Parameters	Units	27 September 2023		29 May 2024		Course the line its
		STW002091	STW002092	STW002091	STW002092	Consent limits
Temperature	°C	12.7	12.8	10.1	11.1	-
рН	pН	7.4	7.4	7.3	7.1	6.0 - 9.0
Conductivity	mS/m	46.1	9.6	42.3	16.4	-
Suspended solids	g/m³	15	5	57	6	100
Turbidity	FNU	-	-	47	7.1	-
Nutrients						
NH <sub>3</sub>	g/m <sup>3</sup>	0.0045	< 0.00008	0.0039	< 0.00003	-
NH <sub>4</sub>	g/m <sup>3</sup>	0.60	< 0.010	0.97	< 0.010	-

Table 17 Enviro NZ stormwater sampling results

All results were found to be compliant with consent conditions, and within historical ranges for both sites. Receiving water results indicate no adverse effects were occurring in the Mangamiro or Mangaone Streams during the times Enviro NZ was discharging stormwater (see section 15.1.2).

### 5.3 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 Enviro NZ. 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 Enviro NZ conditions in resource consents or provisions in Regional Plans.

# 5.4 Evaluation of performance

A tabular summary of the consent holder's compliance record for the period under review is set out in Table 18.

Table 18 Summary of performance for Enviro NZ Consent 10109-1

Purpose: To discharge stormwater from an industrial site into the Puremu Stream and an unnamed tributary of the Mangaone Stream					
Condition requirement	Means of monitoring during period under review	Compliance achieved?			
1. Adopt best practical option	Inspections	Yes			

Sucan				
Condition requirement	Means of monitoring during period under review	Compliance achieved?		
2. Limit on catchment size	Inspections	Yes		
3. Limits on contaminants in discharge	Sampling	Yes		
4. Discharge cannot cause specified adverse effects beyond mixing zone	Visual assessment at inspection and receiving water sampling and biomonitoring	Yes		
5. Maintain and adhere to a stormwater management plan	Up to date as of July 2024	Yes		
6. Maintain and adhere to a spill contingency plan	Up to date as of July 2024	Yes		
7. Notify the Council of changes at site	No notification received	N/A		
8. Lapse condition	Consent exercised	N/A		
9. Provision for review of consent	Next opportunity for review June 2026	N/A		
Overall assessment of consent compliance and	High			
Overall assessment of administrative performa	ance in respect of this consent	High		

Purpose: To discharge stormwater from an industrial site into the Puremu Stream and an unnamed tributary of the Mangaone Stream

N/A = not applicable

During the year, Enviro NZ demonstrated a high level of environmental and administrative performance with their resource consent as defined in Appendix II.

# 6. Firth Industries Ltd

### 6.1 Site description

Firth Industries Ltd (Firth) operates a concrete batching plant on a 1.19ha site off Clemow Road, on the true left bank of the Waiwhakaiho River (Figure 8). The plant is situated partly on the flood plain and partly above the escarpment formed by the river. A concrete precast factory operated by Ultimate Engineered Concrete Ltd was previously located on the site but has since relocated to De Havilland Drive. The precast factory was located on the escarpment above the main site and included a bedding plant that is no longer operational. The stormwater drainage system for this site is still in place.



Figure 8 Aerial view of Firth site with associated sampling points

Stormwater from the lower part of the site is processed by a purpose-built Siltbuster Ltd stormwater treatment system, before discharging to the Waiwhakaiho River via an old watercourse. This system was installed and began operating in September 2020. Prior to this, stormwater was treated in a four-pond settling system before being pumped to the river. Wastewater from the washing of plant and concrete delivery trucks is discharged to separate wastewater treatment system which treats and recycles the wastewater.

Stormwater from the upper part of the site, where the bedding plant is situated, discharges via two small settling pits to the Waiwhakaiho River at a separate point.

A range of chemicals used in the ready-mix and precast operations are held in the catchment of the main settling system. On the whole, they are either stored indoors or within bunded areas.

Off-specification and surplus concrete, and solids from the settling ponds are deposited along the riverbank. This forms part of the flood protection works for the site. Excess solids are removed from the site periodically.

Firth holds Consent **0392-4** to discharge stormwater and treated wastewater into the Waiwhakaiho River. This consent contains the nine standardised special conditions as set out in section 1.2. It also has one additional condition requiring stormwater and wastewater separation by a certain date. A copy of the permit is attached to this report in Appendix I.

# 6.2 Results

### 6.2.1 Inspections

Three routine compliance monitoring inspections were conducted at the site during the monitoring period to assess compliance with resource consent conditions. These inspections were conducted on 27 September and 8 February and 19 June 2024.

Primary operations no longer occur at the site and during all inspections it was operating as a truck wash only. Wash and storm water are directed to old concrete sediment ponds and from there discharged to water. No issues were noted during inspections.

### 6.2.2 Results of discharge monitoring

Runoff from Firth's site is monitored where it enters the Waiwhakaiho River below the former settling ponds and new treatment system (site IND002001). This also includes stormwater runoff from the adjacent property (which is not owned by Firth but is within the area covered by their resource consent). Discharges from the settling pond at the bedding plant, located above the main plant, are sampled from a flume at the main entrance to the lower yard (STW001080).

Consent conditions require that the discharges do not exceed 15g/m<sup>3</sup> of oil and grease or 100g/m<sup>3</sup> of total suspended solids. Consent conditions also require that discharges do not cause a pH of below 6.0 or above 9.0 and/or an increase of pH of more than 0.5 in the Waiwhakaiho River, 50m downstream, of the discharge point.

The results for the stormwater drain and the flume discharge are given in Table 19. The results were compliant with the resource consent conditions and within the historical range for the site. The results of monitoring the receiving waters below the site are reported in section 15.

Demonsterne	11	IND002001		STW001080		Concernt lineite
Parameters	Units	27 Sep 2023	29 May 2024	27 Sep 2023	29 May 2024	Consent limits
Temperature	°C	11.7	11.4	11.5	9.9	-
рН	pН	11.3	9.7	7.4	7.3	6.0 - 9.0
Conductivity	mS/m	67.0	24.9	5.5	7.8	-
Suspended solids	g/m³	39	46	5	< 3	100
Turbidity	FNU	18.0	33	4.9	1.65	-
CBOD	g O <sub>2</sub> /m <sup>3</sup>	-	-	-	< 1.0	-
DRP	g/m³	-	-	-	0.045	-
Metals (dissolved)						
Copper	g/m³	-	-	-	0.0027	-
Zinc	g/m³	-	-	-	0.24	-

 Table 19
 Firth stormwater sampling results, sites IND002001 and STW001080

# 6.3 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 Firth. 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 Firth's conditions in resource consents or provisions in Regional Plans.

# 6.4 Evaluation of performance

A tabular summary of the consent holder's compliance record for the period under review is set out in Table 20.

Purpose: To discharge stormwater and treated wastewater into the Waiwhakaiho River				
	Condition requirement	Means of monitoring during period under review	Compliance achieved?	
1.	Adopt best practical option	Inspections and programme supervision	Yes	
2.	Stormwater catchment not to exceed 1.618ha	Inspections	Yes	
3.	Stormwater treatment system to be used	Inspections	Yes	
4.	Limits on contaminants in discharge	Sampling	Yes	
5.	Discharge cannot cause specified adverse effects beyond mixing zone	Visual assessment at inspection and receiving water sampling and biomonitoring	Yes	
6.	Maintain and adhere to a contingency plan	Inspections and programme supervision	Yes	
7.	Maintain and adhere to a Management Plan	Updated plan received February 2023	Yes	
8.	Undertake improvements as set out in the management plan by 22 February 2016	N/A	Yes	
9.	Notify Council of any changes at the site	Inspections and liaison with consent holder	Yes	
10	. Review condition	Next opportunity for review June 2026	N/A	
0\ 0\	verall assessment of consent compliance and env verall assessment of administrative performance	High High		

 Table 20
 Summary of performance for Firth Consent 0392-4

N/A not applicable

During the period under review, Firth Industries Ltd demonstrated a high level of environmental and of administrative performance and compliance with their resource consent and RFWP as defined in Appendix II.

# 7. Holcim NZ Limited

### 7.1 Site description

Holcim NZ Limited (Holcim) operates a concrete batching plant at 67 Hurlstone Drive (Figure 9), which is one of three such plants the Company operates in the Taranaki region. The main activities are loading of ready-mixed concrete into trucks, and the unloading of concrete raw materials including cement and aggregate into silos and bins.

Stormwater from the majority of the site drains directly to the New Plymouth District Council (NPDC) stormwater system and then to the Mangaone Stream.



Figure 9 Aerial view of Holcim site location with associated sampling point

The wastewater treatment system consists of a series of settlement ponds and pumps for the recycling of process water. The emptied mixing bowls of up to seven concrete trucks are washed out each day using water and a small amount of detergent. This bowl wash water is discharged into two 36m<sup>3</sup> bins and allowed to settle for at least 18 hours before treatment through an additional series of six settlement ponds totalling approximately 360m<sup>3</sup> in volume. Solids from the settlement process are removed from the bins and ponds as required.

Water from the settlement ponds is recycled into the concrete manufacturing process and is also used for bowl washing. The recycled water is supplemented on most days by reticulated supply and no discharge of wastewater occurs to the stormwater drain. However, because the uncovered settlement ponds receive stormwater both directly and as run off from certain areas of the site, an excess of water may enter the system during heavy or sustained rainfall, or if rainfall occurs when the plant is not operating. This excess is discharged via a sand filter prior to entering the NPDC stormwater system, which discharges to the Mangaone Stream immediately upstream of State Highway 3.

Holcim holds water Discharge Permit **4539-2** to cover the discharge of stormwater and treated wastewater from truck washing at a concrete batching plant into the Mangaone Stream in the Waiwhakaiho Catchment.

It contains the standardised special conditions as set out in section 1.2. The permit is attached to this report in Appendix I.

# 7.2 Results

### 7.2.1 Inspections

Three routine compliance monitoring inspections were conducted at the site during the monitoring period to assess compliance with resource consent conditions. These inspections were conducted on 14 August 2023 and 1 February and 20 June 2024.

Inspections of the yard found storm water channels and drainage points around the site to be unobstructed and free flowing. Bunding newly situated at the entrance was having some effect to divert storm water into the correct drainage points. All stormwater is directed to drains where it is sent to the treatment holding ponds and then recycled back to the plant to be used again. Any excess water is sent to sand filters and then discharged into roadside stormwater drain. The Company undertakes self-monitoring of discharges, with samples being tested by Holcim NZ on regular basis. There was a temporary plant on site at during the monitoring period while the old plant is being fixed and staff advised that this plant could be the cause of the high pH results (refer to section 7.2.2 below).

### 7.2.2 Results of discharge monitoring

Since 1996, the discharge from the concrete plant has been monitored at a manhole outside the plant, before it enters the stormwater drain along Hurlstone Drive. It is also monitored at a second point, together with contributions from the surrounding industrial area, at the point where the combined NPDC reticulated stormwater drain discharges into the Mangaone Stream (site STW001035).

Discharges from the site were sampled on two occasions during the monitoring period under review and results are displayed in Table 21. Samples were collected during one routine compliance inspection and during a catchment sampling run in wet weather conditions.

Results showed pH was high in samples of the discharge on all sampling occasions. However, the pH limit of 6.0 – 8.0 applies to the receiving waters after allowing a reasonable mixing distance. Therefore, pH compliance cannot be assessed on the discharge sample taken. The results for the stormwater drain at the Mangaone Stream (site STW001035) are given in section 9.2.2.5, whilst the results of the receiving water (i.e. for the purposes of monitoring compliance with consent conditions) are given in section 15.1.2.

Parameters	Units	14 Aug 2023	29 May 2024	Consent limits
рН	рН	11.0	12.1	6.0 - 8.0*
Temperature	°C	11.6	-	-
Conductivity	mS/s	38.0	221	-
Suspended solids	g/m³	51	48	100
Total hydrocarbons	g/m³	< 0.7	-	15
Turbidity	FNU	51	68	-

Table 21	Holcim stormwater	sampling results,	site STW002033
		······································	

\*pH consent limits apply to the receiving waters of the Mangaone Stream

## 7.3 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 Holcim. 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 Holcim's conditions in resource consents or provisions in Regional Plans.

### 7.4 Evaluation of performance

A tabular summary of Holcim's compliance record for the year under review is set out in Table 22.

Purpose: To discharge stormwater and treated wastewater from truck washing at a concrete batching plant into the Mangaone Stream in the Waiwhakaiho Catchment					
Condition requirement	Means of monitoring during period under review	Compliance achieved?			
1. Adoption of best practicable option to minimise effects	Observation and discussion at inspections	Yes			
2. Limit on stormwater catchment area	Observation and discussion at inspections	Yes			
3. Bunding of above ground hazardous substance storage	Observation at inspections	Yes			
4. Concentration limits upon potential contaminants in discharge	Chemical sampling	Yes			
5. Discharge cannot cause specified general adverse effects beyond mixing zone	Sampling and discharge point inspections	Yes			
6. pH limits on receiving water as a result of discharge	Chemical sampling	Yes			
7. Maintenance of and adherence to contingency plan	Site inspections and liaison with consent holder	Yes			
8. Prepare, maintain and adhere to an operation and management plan	Site inspections	Yes			
9. Written notification of changes	Liaison with consent holder	Yes			
10. Optional review provision re environmental effects	No further provision for review prior to expiry	N/A			
Overall assessment of consent compliance and	High				
Overall assessment of administrative performa	High				

 Table 22
 Summary of performance for Holcim Consent 4539-2

N/A = not applicable

During the year, Holcim demonstrated high levels of environmental and administrative performance as defined in Appendix II.

# 8. KiwiRail Holdings Ltd / New Zealand Railway Corporation

### 8.1 Site description

New Zealand Railways Corporation/KiwiRail Holdings Ltd (KiwiRail) own a rail terminal on a site off Smart Road (Figure 10). In addition to transportation of freight, the terminal is utilised as a maintenance depot. The freight receipt and dispatch area and the refuelling and maintenance depots are situated at the Smart Road end of the site.



Figure 10 Aerial view of KiwiRail site with associated sampling points

Drainage from the area to the west and north of the offices (the refueling and maintenance areas) flows to the Waiwhakaiho River via McLeod's Drain, an underground pipe that also receives stormwater from Bunnings's former fertiliser depot, other industrial sites, a residential area, and a rural area. Wastewater from washing of wagons, containers and locomotives is treated in a three-stage oil separator before discharge to the river. Liquids from the repair depot and locomotive fueling point are discharged to an underground holding tank that is emptied by a waste disposal company at two-monthly intervals. The holding tank is also connected to the oil separator via an automatic pump in case of overfilling.

Drainage from the (sealed) freight area and the unsealed areas of the eastern end of the site is to the Mangaone Stream and its tributaries.

Railway wagons carrying containers of hazardous substances and the bulk products including urea, resins, fertilisers, di-ammonium phosphate (DAP), lime, oils, bitumen and carbon dioxide are held temporarily on the tracks in this area. No loading or unloading of freight takes place in the stormwater catchment that drains to the Mangaone Stream.

KiwiRail hold two consents for the Smart Road railway yard. One consent relates to the discharge of treated wastewater and stormwater to the Waiwhakaiho River which is held by KiwiRail Holdings Ltd, and the other is to discharge of stormwater to the Mangaone Stream which is held by New Zealand Rail Corporation.

KiwiRail holds Consent **3528-3** to discharge stormwater into the Waiwhakaiho River. This consent contains the standardised conditions as set out in section 1.2 as well as limits of 3g/m<sup>3</sup> ammoniacal nitrogen (NH<sub>4</sub>) and 1g/m<sup>3</sup> dissolved reactive phosphorus (DRP).

KiwiRail (trading as NZRC) holds Consent **1735-3** to discharge stormwater from the Smart Road Rail Terminal into an unnamed tributary of the Mangaone Stream, and into the Mangaone Stream in the Waiwhakaiho Catchment. The unnamed tributary of the Mangaone is informally referred to as the Mangamiro Stream. This consent contains the standardised special conditions as set out in section 1.2.

# 8.2 Results

### 8.2.1 Inspections

Two routine compliance monitoring inspections were conducted at the site during the monitoring period to assess compliance with resource consent conditions. These inspections were conducted on 27 September and 20 June 2024. A meeting was held onsite on 20 September 2023 to discuss the measures installed to limit the emission of dust and suspended solids in the discharge.

All storm water directed to the appropriate drains and the discharge appeared clear with no negative or adverse effects downstream of the discharge area. No hazardous substances were observed, and the fuel tank was well bunded with emergency supplies located in the shed. It was observed during the second inspection that water had been sprayed over site to minimise dust.

### 8.2.2 Results of discharge monitoring

The discharge of stormwater from the freight and fuel handling and storage areas is monitored where the stormwater enters the Smart Road stormwater drain, south of the railway overbridge (site IND002014). The results for period under review are given in Table 23. Compliance with consent limits was achieved for all parameters during the period under review.

Parameter	Unit	27 Sep 2023	29 May 2024	Consent limits
Temperature	°C	13.8	10.5	-
рН	рН	7.3	7.2	6.0 - 9.0
Conductivity	mS/m	11.3	12.7	-
Suspended Solids	g/m³	9	18	100
Turbidity	NTU	9.4	9.1	-
TBOD <sub>5</sub>	g O <sub>2</sub> /m³	1.4	3.2	-
Total hydrocarbons	g/m³	< 0.7	Pass^	15*
Nutrients				
NH₃	g/m³	0.00015	0.00071	-
NH <sub>4</sub>	g/m³	0.025	0.25	3
DRP	g/m³	0.012	0.014	1

Table 23 KiwiRail stormwater sampling results, site IND002014

\*Hydrocarbons measured in place of oil & grease; ^visually assessed

### 8.2.3 Results of surface water monitoring

One survey of the surface waters in the Mangamiro Stream was conducted for the period under review, and the results of this monitoring are reported in Table 24. A sample was not able to be collected from the downstream site, due to insufficient flow.

Deventer	1 Inite	MMR000061	Concernt lineite	
Parameters	Upstream of yard		Consent units	
Temperature	°C	11.8	-	
рН	рН	7.3	6.0 - 9.0	
Conductivity	mS/m	19.9	-	
Suspended Solids	g/m³	17	100	
Turbidity	FNU	17.6	-	
CBOD	g O <sub>2</sub> /m³	< 1.0	-	
Metals (dissolved)				
Copper	g/m³	< 0.0005	-	
Zinc	g/m³	0.0027	-	
Nutrients				
NH <sub>3</sub>	g/m³	0.00082	-	
NH₄	g/m³	0.191	-	
DRP	g/m³	< 0.004	-	

Table 24 Mangamiro Stream surface water sampling results, 29 May 2024

### 8.3 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 KiwiRail. 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 KiwiRail's conditions in resource consents or provisions in Regional Plans.

# 8.4 Evaluation of performance

A tabular summary of the KiwiRail's compliance record for the period under review is set out in Table 25 and Table 26.

Pu	Purpose: To discharge stormwater into the Mangaone Stream				
	Condition requirement	Means of monitoring during period under review	Compliance achieved?		
1.	Adoption of best practicable option to prevent or minimise adverse effects	Inspections and receiving water monitoring	Yes		
2.	Limits stormwater catchment to 11.28ha	Inspections	Yes		
3.	Bunding of hazardous substances if on site for more than three days	Inspections	N/A		

Table 25 Summary of performance for KiwiRail Consent 1735-3

Pu	Purpose: To discharge stormwater into the Mangaone Stream				
	Condition requirement	Means of monitoring during period under review	Compliance achieved?		
4.	Concentration limits upon potential contaminants in discharge	By inference from chemical sampling of receiving water	Yes		
5.	Discharge cannot cause specified adverse effects beyond mixing zone	Visual assessment at inspection and receiving water sampling and biomonitoring	Yes		
6.	Prepare and maintain contingency plan	Plan up-to-date, next review October 2025	Yes		
7.	Prepare, maintain and adhere to management plan	Plan up-to-date, next review October 2025	Yes		
8.	Provision for lapsing of consent	Consent exercised	N/A		
9.	Provision for review of conditions	No further provision for review prior to expiry	N/A		
Overall assessment of consent compliance and environmental performance in respect of this consent			High		
0	verall assessment of administrative perform	ance in respect of this consent	High		

N/A: not applicable

Table 26 Summary of performance for KiwiRail Consent 3528-3

Pu	Purpose: To discharge of stormwater into the Waiwhakaiho River				
	Condition requirement	Means of monitoring during period under review	Compliance achieved?		
1.	Adopt best practical option	Inspections	Yes		
2.	Size of catchment area	Inspections	Yes		
3.	Contaminant limits in discharge	Sampling	Yes		
4.	Discharge cannot cause specified adverse effects beyond mixing zone	Visual assessment at inspection and receiving water sampling and biomonitoring	Yes		
5.	Contingency planning	Plan up-to-date, next review October 2025	Yes		
6.	Adhere to Stormwater management plan	Plan up-to-date as of September 2022	Yes		
7.	Notification of changes in site processes	No changes made	N/A		
8.	Review condition	No further provision for review prior to expiry	N/A		
Ov	Overall assessment of consent compliance and environmental performance in respect of this consent High				
Ov	erall assessment of administrative performa	nce in respect of this consent	High		

N/A: not applicable

During the period under review, KiwiRail Holdings Ltd/New Zealand Railways Corporation Ltd demonstrated a high level of environmental and administrative performance and compliance with their resource consent as defined in Appendix II.

# 9. New Plymouth District Council

### 9.1 Site description

New Plymouth District Council (NPDC) holds two resource consents in relation to discharges to the Lower Waiwhakaiho River below State Highway 3, and one consent in relation to discharges to the Mangaone Stream. The results for the stormwater and leachate discharge monitoring are reported on separately.

It has been acknowledged that NPDC has no direct control over the quality of discharges from sites in the catchment. However, road run-off and surface flooding due to poorly maintained drains may contribute to the contamination of stormwater entering the Waiwhakaiho River and Mangaone Stream.

All stormwater screen inlets and outlets in the system are inspected and cleaned regularly by NPDC to ensure that debris is not accumulated in any way that may affect the network capacity. Outfalls with flap gates are serviced every two months. These inspections are usually undertaken following a heavy rainfall event.

During periods of high rainfall, one of the key features of the performance of the stormwater drainage system is its susceptibility to inlet and outlet blockages. The NPDC maintenance plan aims to reduce reactive maintenance and improve the operation and reliability of the system through preventative maintenance. This includes pipeline condition assessment using video inspection.

### 9.1.1 Water discharge permits

#### Waiwhakaiho River

NPDC holds Consent **5163-2** to discharge stormwater from the Waiwhakaiho industrial area into the Waiwhakaiho River via multiple outfalls between State Highway 3 and the confluence with the Mangaone Stream. The catchment area and location of stormwater and landfill leachate discharge points are shown in Figure 11. Conditions on the consent require the consent holder to adopt the best practicable option to prevent or minimise any adverse effects, address erosion, and prohibit some specific effects.

#### Mangaone Stream

NPDC holds Consent **1275-3** to discharge stormwater from the Katere and Waiwhakaiho industrial areas into the Mangaone Stream via multiple outfalls between Egmont Road and the confluence with the Waiwhakaiho River. The catchment area and location of stormwater and landfill leachate discharge points are shown in Figure 12. Conditions on the consent require the consent holder to adopt the best practicable option to prevent or minimise any adverse effects, address erosion, and prohibit some specific effects.



Figure 11 Aerial view of NPDC stormwater and leachate discharge locations in the Waiwhakaiho Catchment



Figure 12 Aerial view of NPDC stormwater discharges to the Mangaone Stream

### 9.1.2 Bewley Road closed landfill

The old Taranaki County Council (TCC) depot site was quarried at the end of its life, and was then infilled, becoming the Bewley Road landfill. The former Bewley Road landfill extended for about 740m along the Waiwhakaiho River bank between Constance Street and Vickers Road, and back to Devon Road. In 2006, the closed landfill area was developed and is now the site of the Valley Mega Centre retail outlet and car park. Leachate from the site discharges to groundwater which seeps into both the stormwater network, and the Waiwhakaiho River, along the riverbank between Constance Street and Vickers Road. There is no treatment of the leachate generated from this closed landfill. Leachate is discharged continuously to the river at very low levels and low volumes.

NPDC holds Consent **4984-2** to discharge landfill leachate to groundwater and the Waiwhakaiho River from an industrial development off Bewley Road. The consent has conditions that set limits for contaminant concentrations in the discharge, limit effects on receiving water, require the maintenance of monitoring bores, and provide for the review. The results of compliance monitoring for Consent **4984-2** are detailed in section 9.2.3 and 9.2.4.

Copies of all NPDC permits are attached to this report in Appendix I.

# 9.2 Results

### 9.2.1 Inspections

Three routine compliance monitoring inspections were conducted during the monitoring period to assess the compliance of NPDC's stormwater and landfill leachate discharges with their respective resource consent conditions. These inspections were conducted on 14 August and 27 September 2023 and 20 June 2024.

Visual inspections of discharge points found no issues. No adverse effects on the receiving environment were noted during any of the inspections.

### 9.2.2 Results of discharge monitoring

Discharge monitoring is carried out at six public stormwater drain outlets, three of which also discharge wastewater or stormwater from consented industrial sites. These are McLeod's Drain (STW001001) at the bottom of Smart Road, the "mid Katere Road" storm drain (STW001116) to the Mangaone Stream and the storm drain to the Mangaone Stream (STW001035) that services the Hurlstone Drive area.

No contaminant concentration limits have been incorporated into the NPDC consents as it is acknowledged that, for the most part, the District Council has no direct control over the quality of the discharges from the industrial and commercial sites. However, the quality of the discharges is still required to meet requirement of the RFWP permitted activity rules for stormwater discharge to water. Therefore, discharges are monitored, as road run-off and surface flooding due to poorly maintained drains may contribute to the contamination of stormwater entering the receiving waters.

#### 9.2.2.1 Discharge to Waiwhakaiho River from Burton Street

The sampling site that monitors the discharge of stormwater from the Burton Street area as it enters the Waiwhakaiho River was introduced during the 1999/00 monitoring period. The drain carries stormwater from a number of small commercial sites that are located along Burton Street. The discharge is monitored to determine influences on water quality occurring upstream of other larger discharge sources (such as Firth's or McLeod's Drain).

The results of routine chemical monitoring for the period under review are presented in Table 27. The pH, suspended solids, and oil and grease concentrations were determined to be within the standards expected for permitted activities within this stormwater catchment.

Parameter	Unit	14 Aug 2023	29 May 2024	<b>RFWP</b> Guideline
Temperature	°C	12.7	9.6	-
рН	рН	6.9	7.0	6.0 - 9.0
Conductivity	mS/m	2.0	6.1	-
Suspended solids	g/m³	13	13	100
Turbidity	FNU	12.9	3.8	-
Total hydrocarbons	g/m³	< 0.7	Pass^	15*

Table 27 Stormwater sampling results for Burton Street, site STW001081

\*Hydrocarbons measured in place of oil & grease; ^visually assessed

#### 9.2.2.2 Discharge to Waiwhakaiho River from McLeod's Drain

The discharge from McLeod's Drain enters the Waiwhakaiho River about 50m downstream of the lower end of Smart Road. The drain carries stormwater from the Bunnings site, other industrial sites including the railyard on Smart Road, the residential area of Glen Avon, and a rural area to the south. The discharge is monitored to determine influences on water quality in addition to those of the former fertiliser storage depot and railyard.

Although Bunnings's former fertiliser depot is no longer in use, there is likely to still be some inputs of phosphorus and ammonia due to dissolution of existing fertiliser particles carried by wind or water into storm drains at and around the site. The results of routine chemical monitoring for the period under review are presented in Table 28.

Parameter	Unit	27 Sep 2023	29 May 2024	<b>RFWP Guideline</b>
Temperature	°C	15	13.4	-
рН	pН	7.3	7.4	6.0 - 9.0
Conductivity	mS/m	32.8	19.7	-
Suspended solids	g/m³	6	8	100
Turbidity	FNU	3.7	7.3	-
Total hydrocarbons	g/m³	< 0.7	< 0.7	15*
Nutrients				
NH₃	g/m³	0.0174	0.0027	0.025
NH <sub>4</sub>	g/m³	2.5	0.42	-
DRP	g/m³	0.007	0.008	-

 Table 28
 Stormwater sampling results for McLeod's Drain, site STW001001

\*Hydrocarbons measured in place of oil & grease

The pH, unionised ammonia (NH<sub>3</sub>), and hydrocarbon concentrations were all determined to be well within the standards expected for a permitted activity and within the prescribed "standardised" limits for the consent holders contributing to this discharge.

#### 9.2.2.3 Discharge to Waiwhakaiho River from Vickers Road

This catchment drains the area on both sides of Vickers Road, containing discharge from the south-western end of Dialog site, and along with a section of Devon Road, to the west of the Katere Road junction. The results for the period under review are given in Table 29.

Parameter	Unit	27 Oct 2023	29 May 2024	<b>RFWP</b> Guideline
Temperature	°C	13.4	13.2	-
рН	рН	7.6	7.4	6.0 - 9.0
Conductivity	mS/m	29.1	23.1	-
Suspended solids	g/m³	24	31	100
Turbidity	FNU	15.4	30	-
Total hydrocarbons	g/m³	< 0.7	< 0.7	15*

Table 29 Stormwater sampling results for Vickers Road, site STW001020

\*Hydrocarbons measured in place of oil & grease

Sampling showed that the suspended solids, pH, and hydrocarbon concentrations were within the standards expected for the permitted activities within this stormwater catchment on all monitoring occasions.

#### 9.2.2.4 Discharge to Mangaone Stream from mid Katere Road

Stormwater from the mid-section of Katere Road discharges to the Mangaone Stream upstream of the discharge from Taranaki Sawmill's timber treatment plant site and carries stormwater from a number of permitted activities on the northern side of Katere Road, and from the Urban Aspect Limited site. Monitoring of this discharge commenced in 2007. The results for the period under review are presented in Table 30.

Parameter	Unit	14 Aug 2023	29 May 2024	<b>RFWP</b> Guideline
Temperature	°C	12.2	9.6	-
рН	pН	7.3	7.2	6.0 - 9.0
Conductivity	mS/m	5.0	7.8	-
Suspended solids	g/m³	44	22	100
Turbidity	NTU⁺/FNU	35	26	-
TBOD <sub>5</sub>	g O <sub>2</sub> /m³	1.5	5.9	5
Total hydrocarbons	g/m³	< 0.7	< 0.7	15*
Nut	rients			
NH₃	g/m³	0.00051	0.00053	0.025
NH₄	g/m³	0.099	0.199	-
DRP	g/m³	0.033	0.123	-

Table 30 Stormwater sampling results for mid Katere Road, site STW001116

\*Hydrocarbons measured in place of oil & grease

The consent held by NPDC for discharges into the Mangaone Stream has no conditions relating to the quality of the discharge. However, all results for the monitoring period met the RFWP limits for a permitted stormwater discharge to water and were within expected ranges. The total biological oxygen demand was slightly higher than the RFWP guideline, but the results was within the historical range (n = 11, median =  $6gO_2/m^3$ , min =  $1.8gO_2/m^3$ , max =  $19gO_2/m^3$ , from Oct 2018 to May 2023).

#### 9.2.2.5 Discharge to Mangaone Stream from Hurlstone Drive

Stormwater from the industrial area along Hurlstone Drive discharges to the Mangaone Stream immediately upstream of State Highway 3. This discharge contains stormwater and wastewater from Holcim's batching plant as well as roadside runoff. The results of routine chemical monitoring for the period under review are presented in Table 31.

Parameter	Unit	14 Aug 2023	<b>RFWP</b> Guideline
Temperature	°C	12.6	-
рН	рН	9.7	6.0 - 9.0
Conductivity	mS/m	10.1	-
Suspended solids	g/m³	27	100
Turbidity	FNU	37	-
Total hydrocarbons	g/m³	< 0.7	15*
Nutrients			
NH₃	g/m³	0.049	0.025
NH <sub>4</sub>	g/m³	0.078	-

Table 31 Stormwater sampling results for Hurlstone Drive, site STW001035

\*Hydrocarbons measured in place of oil & grease

The concentrations of suspended solids and hydrocarbons complied with the standards expected for a permitted activity and were within the prescribed limits for consent holders discharging through this outlet. However, both pH and ammonia levels were slightly higher than the RFWP guidelines, likely due to the activity of the concrete plant upstream. This should be monitored, as elevated levels can be harmful to aquatic life.

### 9.2.3 Results of groundwater monitoring and receiving environment

#### 9.2.3.1 Site description

There are three groundwater bores located around the periphery of the area, which NPDC is required to maintain for the purpose of consent compliance monitoring with Consent **4984-2** to discharge landfill leachate to groundwater. There is also a leachate discharge monitoring point at the outlet of the main drain which carries the groundwater to the river. The locations of the four sites are shown on Figure 2 as GND0548, GND0555, GND0556, and WKH000872. Stormwater from the retail area between Struthers Place and Constance Street, the commercial area of Struthers Place, and part of Rifle Range Road and a small unnamed tributary that once discharged at this location are also piped to the Waiwhakaiho via this leachate discharge point.

Groundwater monitoring bore GND0556 is drilled into natural alluvial deposits beside Devon Road and acts as a control bore for the area. This bore was affected by the raising of the ground surface around it by approximately 0.5m which may affect the chemical results. Groundwater monitoring bore GND0555 is on Rifle Range Road between Struthers Place and Vickers Road and groundwater bore GND0548 is located near the corner of Struthers Place and Rifle Range Road. These two bores were destroyed and re-drilled multiple times over the years following development and landscaping work in the area (see previous reports for further details). This needs to be considered in interpreting the results and in particular median values for parameters.

#### 9.2.3.2 2023/24 compliance assessment

Consent limits for ammoniacal nitrogen, dissolved reactive phosphorus were complied with (Table 32). The pH measured at GND0548 was within the consent range. However, on 12 January 2024 at GND0556, and on 2 May 2024 at GND0555 and GND0556, pH was measured below the consented range. This non-compliance is minor and has been observed in the control bore GND0556 since approximately 2013 (Figure 13) when sulphate, potassium and ammoniacal nitrogen showed an increase. This suggests that GND0556 is connected to the groundwater below the old Ravensdown site.

Date	Bore	NH₄ (g/m³)	DRP (g/m³)	рН
	GND0548	9.0	< 0.004	7.3
12 Jan 2024	GND0555	6.5	< 0.004	6.9
	GND0556	7.6	< 0.004	6.3
	GND0548	15.1	< 0.004	6.8
2 May 2024	GND0555	7.4	< 0.004	6.4
	GND0556	7.1	< 0.004	6.3
Consent limits		25	0.065	6.5 – 8.5

Table 32 Monitoring results from groundwater bores during the 2023/24 monitoring year



Figure 13 Sulphate, pH, potassium and ammoniacal nitrogen measurements over time at the control bore GND0556 and the two bores GND0548 and GND0555 in the old landfill

#### 9.2.3.3 Results of the receiving environment

The former Bewley Road landfill is situated on the right bank of the Waiwhakaiho River and extends about 740m between Constance Street to a point near Vickers Road. The area has been substantially developed and now contains a retail park and a number of commercial operators. Combined discharge from stormwater, and landfill leachate to groundwater from this area enters the Waiwhakaiho River about site WKH000872 (Figure 2).

The Waiwhakaiho River is sampled at three points in relation to the landfill leachate discharge. The first is above the leachate discharge point (WKH000920), the second is adjacent to the discharge (WKH000925), and a third below the mixing zone (WKH000942). The results from these sites are used to assess any potential impacts of the leachate.

The leachate and associated river sites were sampled twice during the period under review, and results are shown in Figure 14.

Unionised ammonia exceeded the consent limit of 0.0025g/m<sup>3</sup> at WKH000872 site on both sampling occasions. However, these high unionised ammonia concentrations did not affect the receiving environment. It is noted that this limit has never been complied with, and the in-stream values are lower than the general limit applied within the RFWP for permitted effects in receiving waters. This will be reviewed at the next consent review date.

Ammoniacal nitrogen concentrations in the leachate discharge from the same site are decreasing since the maximum measured at 54g/m<sup>3</sup> on 19 August 2021 but are still well above the concentrations measured instream.

![](_page_57_Figure_3.jpeg)

Figure 14 Unionised ammonia and total ammonium concentrations in the receiving environment and combined stormwater and landfill leachate discharge measured during the two groundwater surveys

The historical ammonium and unionised ammonia concentrations at WKH000872 are presented in Figure 15. The reasons for elevated NH<sub>3</sub> and NH<sub>4</sub> in the combined discharge from stormwater, and landfill leachate to groundwater (site WKH000872) are still unclear but were investigated in the past (see annual reports from 2012/14 and 2020/21). Although the concentrations are very high, they show a decrease compared to the previous years and maximum measured in 2021. Note that WKH000872 is sampled during groundwater dry runs and during the annual Lower Waiwhakaiho wet run while Figure 15 also includes the results from the wet runs, which generally correspond to the lower concentrations at the site. Despite the elevated concentrations, the discharge had no observed effect on the receiving environment.

![](_page_58_Figure_0.jpeg)

Figure 15 Unionised ammonia and ammoniacal nitrogen concentrations measured over time at WKH000872 (wet and dry runs)

## 9.3 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.

# 9.4 Evaluation of performance

A tabular summary of the consent holder's compliance record for the period under review is set out in Table 33 to Table 35.

Pu	Purpose: To discharge stormwater discharge from the Katere Industrial area into the Mangaone Stream				
	Condition requirement	Means of monitoring during period under review	Compliance achieved?		
1.	Adoption of best practicable option to minimise adverse effects	Inspection and receiving water monitoring	Yes		
2.	Prevention of erosion	Visual assessment at inspection and receiving water sampling	Yes		
3.	Discharge cannot cause specified adverse effects in Mangaone Stream	Inspection and receiving water monitoring	Yes		
4.	Optional review provision re environmental effects	No further provision for review prior to expiry	N/A		

 Table 33
 Summary of performance for NPDC Consent 1275-3

Purpose: To discharge stormwater discharge from the Katere Industrial area into the Mangaone Stream				
Condition requirement Means of monitoring during period under review Compliance achieved?				
Overall assessment of consent compliance and e	High			
Overall assessment of administrative performance in respect of this consent High				

N/A: not applicable

#### Table 34 Summary of performance for NPDC Consent 5163-2

Purpose: To discharge stormwater discharge from an industrial subdivision into the Waiwhakaiho River				
Condition requirement	Means of monitoring during period under review	Compliance achieved?		
1. Adoption of best practicable option to minimise adverse effects	Inspection and receiving water monitoring	Yes		
2. Prevention of erosion	ntion of erosion Visual assessment at inspection and receiving water sampling			
3. Discharge cannot cause specified adverse effects in Mangaone Stream	Inspection and receiving water monitoring	Yes		
4. Optional review provision re environmental effects	N/A			
Overall assessment of consent compliance ar	High			
Overall assessment of administrative perform	nance in respect of this consent	High		

N/A: not applicable

#### Table 35 Summary of performance for NPDC Consent 4984-2

Purpose: To discharge leachate from a former landfill site into groundwater, adjacent to the Waiwhakaiho River					
Condition requirement	Compliance achieved?				
1. Limits on chemical composition of discharge	Inspection and sampling of discharge	No. pH below and NH₄ above consented limits on at GND0556 and NH₃ above at WKH000872			
2. Discharge cannot cause specified adverse effects beyond mixing zone	Visual assessment at inspection and receiving water sampling	Yes			
3. Maintenance of monitoring bores	3. Maintenance of monitoring bores Inspection and accessibility at sampling				
4. Optional review provision re environmental effects	N/A				
Overall assessment of consent compliance ar	Good				
Overall assessment of administrative perform	nance in respect of this consent	High			

N/A = not applicable

During the period under review, New Plymouth District Council demonstrated a good level of environmental performance and high level of administrative performance and compliance with its resource consents as defined in Appendix II. Further work may be required to understand the chemical fluctuations, and subsequent breaches of consent limits, in leachate discharge to groundwater and surface water in the area.

# 10. Ravensdown Fertiliser Co-operative Ltd

## 10.1 Site description

The New Plymouth depot of Ravensdown Fertiliser Co-operative Ltd (Ravensdown) occupies an area of about 8ha of land adjacent to the KiwiRail yard (Figure 16). The depot receives, bags, blends and distributes fertilisers in various forms, namely superphosphate, lime, dolomite and imported high analysis products such as ammonium sulphate, urea, triple super, potassium chloride (potash) and monoammonium and diammonium phosphates. Small volumes of trace element fertilisers such as zinc sulphate are also handled through the store.

Stormwater from the roof and the area immediately surrounding the main building is directed through a planted wetland prior to discharge to the Mangaone Stream. Stormwater from the upper end entrance road is diverted to setting ponds and discharged to the Mangaone Stream further downstream. Stormwater from the lower part of the access road is diverted to the Waiwhakaiho River via MacLeod's drain on Smart Road.

![](_page_60_Picture_4.jpeg)

![](_page_60_Figure_5.jpeg)

Ravensdown holds Consent **10513-1** to discharge stormwater from a fertiliser storage site onto and into land and water. This consent contains eight of the nine standard special conditions as set out in section 1.2. As the activity had already commenced when the consent was granted, the standard lapse condition was omitted. A copy of the permit is attached to this report in Appendix I.

# 10.2 Results

### 10.2.1 Inspections

Three routine compliance monitoring inspections were conducted at the site during the monitoring period to assess compliance with resource consent conditions. These inspections were conducted on 27 September 2023, and 1 February and 20 June 2024.

The site was generally satisfactory, with a few minor issues noted during inspections such as a small amount of rubbish waste on the seaward side of store that needed sweeping, and the tracking of fertiliser from trucks.

The whole site was well bunded with various drains directing stormwater into the wetland. From the wetland stormwater travels through a swale and then is discharged to water. It was noted that the swale had a thick green-black algae growing on top of the stones indicating the presence of nutrients. The discharge from the swale appeared to be clear in colour.

### 10.2.2 Results of discharge monitoring

The discharge from the pond that treats stormwater from the roof and operation areas was sampled twice during the monitoring period. Results are displayed in Table 36.

Parameter	Unit	27 Sep 2023	29 May 2024	Consent limits
Temperature	°C	12.4	10.8	-
рН	рН	6.7	8.1	6.0 - 9.0
Conductivity	mS/m	6.9	49.2	-
Suspended Solids	g/m³	4	< 5	100
Turbidity	FNU	2.1	2.4	-
CBOD <sub>5</sub>	g O <sub>2</sub> /m³	1.2	1.8	10
TBOD <sub>5</sub>	g O <sub>2</sub> /m³	0.9	-	-
Metals (dissolved)				
Copper	g/m³	-	0.0017	-
Zinc	g/m³	-	0.0017	-
Nutrients				
NH₃	g/m³	0.00027	1.14	0.025*
NH₄	g/m³	0.21	50	5
NNN	g/m³	-	3.5	-
DRP	g/m³	0.62	1.3	5

Table 36 Ravensdown stormwater sampling results, site STW002097

\*NH₃ limit applies in-stream

The results of the sample collected on 27 September 2023 complied with limits set by the resource consent.

The level of ammoniacal nitrogen (NH<sub>4</sub>) was ten times above the consented limit of  $5g/m^3$  in the sample collected on 29 May 2024. The concentration of unionised ammonia was also high on this occasion, however the consent limit of  $0.025g/m^3$  applies to the stream and not the discharge. An abatement notice was issued in response to these results, this is discussed further in section 10.3 below.

## 10.3 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 Ravensdown. During the year matters may arise which require additional activity by the Council, for example provision of advice and information, or investigation of potential or actual causes of non-compliance or failure to maintain good practices. A pro-active approach, that in the first instance avoids issues occurring, is favoured.

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

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

Table 37 below sets out details of any incidents recorded, additional investigations, or interventions required by the Council in relation to Ravensdown's activities during the 2023/24 period. This table presents details of all events that required further investigation or intervention regardless of whether these were found to be compliant or not.

Table 37 Incidents, investigations, and interventions summary table	
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Date	Details	Compliant (Y/N)	Enforcement Action Taken?	Outcome
29 May 2024	Total ammoniacal nitrogen concentration was ten times higher than the consent limit.	Ν	Abatement Notice and letter of explanation	A letter requesting explanation was sent and an explanation received and accepted. A detailed action plan was sent in response to the abatement notice and measures have been put in place to remedy the issues. A re-inspection was undertaken with the site manager to discuss and observe the changes made as per action plan provided. Most actions had been completed. Further sampling was undertaken to determine compliance with the resource consent, abatement notice and action plan and was found to be compliant.

## 10.4 Evaluation of performance

A tabular summary of the consent holder's compliance record for the period under review is set out in Table 38.

Table 38	Summary of	performance f	for Ravensdown	Consent 10513-1

	Purpose: To discharge stormwater from a fertiliser storage site onto and into land and into the Mangaone Stream					
	Condition requirement	Means of monitoring during period under review	Compliance achieved?			
1.	Adopt best practicable option to avoid, remedy or mitigate effects	Inspections and consultation with site operators	Yes			
2.	Catchment to be limited to a certain size	Inspections and consultation with site operators	Yes			
3.	Limits on chemical composition of discharge	Observation during inspections and discharge sampling	No. Levels of NH <sub>4</sub> -N in breach of consent conditions			
4.	Limit on effects in receiving water	Observation during inspections, macroinvertebrate sampling and receiving water sampling	Yes			
5.	Maintain contingency plan	Document received	Yes			
6.	Maintain stormwater management plan	Document under review	Yes			
7.	Notification of changes at the site	Inspections and consultation with site operators	Yes			
8.	Review conditions	Next option for review in June 2026	N/A			
0\ 0\	verall assessment of consent compliance and er verall assessment of administrative performance	Improvement required High				

N/A = not applicable

During the period under review, Ravensdown Fertiliser Co-operative Ltd demonstrated a level of environmental performance and compliance that required improvement. A high level of administrative performance and compliance was achieved its resource consent as defined in Appendix II.

# 11. Taranaki Sawmills Ltd

## 11.1 Site description

Taranaki Sawmills Ltd (TSM) has operated a timber treatment plant on Katere Road since 1956 (Figure 17). In 1997, an adjoining site was purchased and developed for painting and packaging, packaging componentry, and a domestic despatch yard, some of which has now been on-sold. About 30 persons are employed at the site.

Timber is treated at two plants. At one plant, timber is treated with copper, chromium and arsenic (CCA), and with boron. At the other plant, light organic solvent preservatives (LOSP) are used.

![](_page_63_Picture_4.jpeg)

![](_page_63_Figure_5.jpeg)

At the CCA and boron treatment plant, all chemical storage tanks and treatment vessels were historically situated outside of the buildings, within areas that were sealed and bunded for containment of spillage. Contaminated stormwater from bunded and drip pad areas was collected in sumps and recycled back through the treatment process. The CCA process was changed in February 1999 by the addition of a steam fixation step after CCA treatment, known as the CCA Dry process. This resulted in the elimination of drippage after treatment. Previously, CCA treated timber had to be left on the drip pad for seven days, now the timber only needs to be left on the drip pad for 24 hours to ensure that there is no drippage once the wood is removed from the treatment area. There is no discharge to water as a result of the CCA dry process, as blowdown from this process is recycled. During the 2002/03 year, a roof was constructed over the drip pad, treatment vessels and chemical storage area, thus eliminating the potential for contaminants to be entrained in the stormwater from these areas.

Some timber is pre-treated by steaming to improve the penetration of the CCA solution. After each steam cycle, the vessel is cooled via an external water heat exchanger to reduce turnaround time. The sludge generated in the steamer vessel, and blowdown from the boiler, was discharged to a settling pit at a rate of about 1,000L/day. The settled wastewater, and about 15,000L/day of cooling water, was discharged to the Mangaone Stream via a stormwater drain. Sludge that accumulated in the pit was disposed of by a local contractor. During the 2005/06 year, the condensate from this "steam cracking" of the timber was diverted to sewer. The discharge of cooling water to the Mangaone Stream continued until the 2008/09 year, during

which the cooling water was also diverted to trade waste. No further discharges of process/wastewater from the site to the Mangaone Stream occurred following this diversion.

In boron treatment, a vacuum is applied to improve chemical diffusion. The boron treated timber was left under tarpaulins on the drip pad for 14 days for diffusion to complete. An improvement in the boron treatment process was introduced in March 2007. Taranaki Sawmills now employ a dry treatment process using 'Framepro'. The process for 'Framepro' is that the timber is kiln dried before it is sent to the treatment plant. After treatment it dries in a shed on a drip pad until being shipped out.

A new LOSP plant was commissioned in February 1999. The treatment chemicals used in the LOSP process are a range of blends containing one or more of the following, in a white spirit solvent; 3-lodo-2-propynyln-butylcarbamate (IPBC), permethrin, Propiconazole (PRCA) and Tebuconazole (TEBA) depending on end use of the timber. At the old LOSP plant, chemical storage tanks were located outside at the northern end of the site in an area that was bunded. The drippage area, which drained to a recycle sump, was also outside. At the new plant, the process is carried out entirely within a building with internal bunds, under computer control to optimize treatment and minimize chemical use. There is no wastewater discharge.

The use of tributyltin oxide at the site ceased in April 2010. Residual tributyltin and CCA have been found in the site surfaces from historical practices. This has been mapped and managed by progressively concreting the affected areas, as discussed in previous Annual/Biennial Reports.

Uncontaminated stormwater, from outside of bunded areas and from roofs, is channeled into two drains that join prior to exiting the site at Katere Road and discharging to the Mangaone Stream.

TSM holds Discharge Permit **3491-3** to cover discharge of cooling water and wastewater from a timber drying plant and stormwater from a timber treatment site into the Mangaone Stream in the Waiwhakaiho Catchment. This consent has 17 special conditions, including the standardised sampling requirements. A copy of the permit is attached in Appendix I.

## 11.2 Results

### 11.2.1 Inspections

Three routine compliance monitoring inspections were conducted at the site during the monitoring period to assess compliance with resource consent conditions. These inspections were conducted on 14 August 2023, and 1 February and 19 June 2024.

No issues were observed during inspections. It was noted that hazardous substances were stored appropriately, including bunded areas, and sawdust available in case of a spill. Sediment socks were in position in drains.

### 11.2.2 Results of discharge monitoring

Historically, the primary sampling point for this site was a combined discharge point on the opposite side of Katere Road (site IND001006). However, it was identified by the consent holder that this site could potentially be contaminated with stormwater from Katere Road.

Subsequently, two additional sampling sites were established (IND001068 and IND001069) to sample stormwater from TSM at the point of discharge into NPDC's stormwater network. These sites were each sampled twice during the monitoring period with the results presented in Table 39.

Monitoring of the LOSP treatment chemicals IPBC, permethrin, PRCA and TEBA was initiated in the 2010/11 year after TSM changed to using these chemicals rather than tributyltin. Levels of these contaminants have been known to fluctuate over time with the latest results being similar to the median of historical results from TSM discharges. Concentrations of LOSP treatment chemicals in the TSM discharge were sampled on

two occasions during the year under review, and on one occasion, samples were also collected from the receiving waters of the Mangaone Stream (Table 39).

<b>D</b>	Unit	IND001068		IND001069		Consent	
Parameter	Unit	14 Aug 2023	29 May 2024	14 Aug 2023	29 May 2024	limits	
Temperature	°C	11.5	10.1	11.5	9.3	25	
рН	pН	6.9	6.8	7.1	7.2	6.0 - 9.0	
Conductivity	mS/m	2.2	5.8	3.6	7.4	-	
Suspended Solids	g/m³	71	3	250	78	100	
Turbidity	FNU	18.3	6.5	200	132	-	
TBOD <sub>5</sub>	g O <sub>2</sub> /m³	1.5	0.0119	1.8	1.8	-	
COD	g O <sub>2</sub> /m³	12	18	19	17	-	
Total hydrocarbons	g/m³	< 0.7	Pass^	< 0.7	Pass^	15*	
Metals (total)							
Arsenic	g/m³	0.0097	0.0106	0.0121	0.0130	0.24	
Boron	g/m³	0.025	0.0119	0.0136	0.022	3.7	
Chromium	g/m³	0.0064	0.0044	0.0108	0.0078	0.4	
Copper	g/m³	0.0069	0.0057	0.039	0.029	-	
Tin	g/m³	< 0.00053	< 0.00053	0.00131	0.022	-	
Zinc	g/m³	0.166	0.53	0.28	0.26	-	
Metals (dissolved)							
Copper	g/m³	0.00004	0.0043	0.0029	0.0081	0.088	
Zinc	g/m³	0.124	0.51	0.0085	0.132	0.64	
Treatment chemicals	Treatment chemicals						
Tributyltin	g/m³	0.00004	< 0.00004	< 0.00004	< 0.00004	0.0046	
Triphenyltin	g/m³	0.00004	< 0.00003	< 0.00004	< 0.00003	-	
LOSP	LOSP						
IPBC	g/m³	0.0002	-	< 0.0002	-	-	
Permethrin	g/m³	0.00091	-	0.00027	-	-	

 Table 39
 TSM stormwater sampling results, site IND001068

\*HC measured in place of oil & grease; ^visually assessed

Samples taken from both of the sites complied with consent conditions for the majority of the parameters. Suspended solids exceeded the consent limit on 14 August 2023, and this is discussed further in section 11.3 below. Overall, the zinc concentration in the two discharges was in the lower range of the historical records. This decrease in zinc in the discharge can be a reflection of the changes TSM made on site to reduce the concentration in zinc in the 2021/22 monitoring year and still in place.

### 11.2.3 Results of surface water monitoring

Samples were collected from the receiving waters of the Mangaone Stream below the TSM site on one occasion. The results of this sampling were used to assess the impact of the discharges from the sawmill on the stream (Table 40). Residual levels of tributyltin are frequently detected in the stream below the discharge points and are associated with historical contamination events. No new discharges of tributyltin have occurred from the TSM site since 2011.

Parameter	Unit	29 May 2024	Consent limits
Temperature	°C	10.9	25
рН	рН	7.4	6.0 - 9.0
Conductivity	mS/m	15.8	-
Suspended solids	g/m³	7	-
Turbidity	FNU	6.1	-
CBOD	g O <sub>2</sub> /m³	< 0.1	2
Metals (total)			
Arsenic	g/m³	< 0.0011	-
Boron	g/m³	0.036	-
Chromium	g/m³	0.00147	-
Copper	g/m³	0.0023	-
Zinc	g/m³	0.0154	-
Metals (dissolved)			
Copper	g/m³	0.0014	-
Zinc	g/m³	0.0109	-

 Table 40
 Surface water sampling results below TSM discharge, site MGO000145

All consented parameters that apply to instream sites (pH, temperature, and CBOD) were within acceptable limits. PRCA was detected in the receiving waters, at levels similar to the historical concentrations for the site downstream of TSM. Permethrin and TEBA were detected in the discharge but were below the laboratory detection limit in the receiving waters. IPBC levels were below laboratory detection limits at all sites sampled.

## 11.3 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 Taranaki Sawmills. During the year matters may arise which require additional activity by the Council, for example provision of advice and information, or investigation of potential or actual causes of non-compliance or failure to maintain good practices. A pro-active approach, that in the first instance avoids issues occurring, is favoured.

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

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

Table 41 below sets out details of any incidents recorded, additional investigations, or interventions required by the Council in relation to Taranaki Sawmills activities during the 2023/24 period. This table presents details of all events that required further investigation or intervention regardless of whether these were found to be compliant or not.

Date	Details	Compliant (Y/N)	Enforcement Action Taken?	Outcome
31 August 2023	Suspended solids in stormwater discharge exceeded consent limit.	N	Letter of explanation EAC-25337	A drain sock was installed.

Table 41	Incidents,	investigations,	and in	nterventions	summary	table
	,	J ,			,	

# 11.4 Evaluation of performance

A tabular summary of the consent holder's compliance record for the period under review is set out in Table 42.

Pur	Purpose: To discharge stormwater from a timber treatment site into the Mangaone Stream				
	Condition requirement	Means of monitoring during period under review	Compliance achieved?		
1.	Adoption of best practicable option	Inspections and discussion with consent holder	Yes		
2.	Exercise of consent in accordance with application information	Inspections and discussion with consent holder	Yes		
3.	Limits stormwater catchment area	Site inspections	Yes		
4.	Concentration limits upon potential contaminants in discharge	Chemical sampling	No. One suspended solids result exceeded		
5.	Maintenance of site access	Inspections and sampling	Yes		
6.	Discharge cannot cause specified adverse effects beyond mixing zone	Visual assessment at inspection and receiving water sampling, and biomonitoring	Yes		
7.	Limit on pH and temperature effects and filtered carbonaceous biochemical oxygen demand (CBOD) beyond mix zone	Chemical sampling of the discharge and receiving water, and recording the temperatures at the time of sampling	Yes		
8.	Maintain and adhere to contingency plan	Reviewed plan received 2018	Yes		
9.	Maintain and adhere to management plan	Reviewed plan received 2018	Yes		
10.	Notification of changes at the site	Inspection and consultation with site operators	Yes		
11.	Provision for review re effects	Next option for review in June 2026	N/A		
Ove Ove	erall assessment of consent compliance and erall assessment of administrative performa	Good High			

 Table 42
 Summary of performance for TSM Consent 3491-3

N/A = not applicable

During the period under review, Taranaki Sawmills Ltd demonstrated a good level of environmental performance and a high level of administrative performance and compliance with its resource consent as defined in Appendix II.

# 12. Technix Group Ltd

### 12.1 Site description

The engineering complex of Technix Group Ltd (Technix) is the largest industrial site along the lower Waiwhakaiho River (Figure 18). Situated on the true right bank of the river immediately above its confluence with the Mangaone Stream, the site is bounded by Dialog Fitzroy sites, Rifle Range Road, State Highway 3, and the Mangaone Stream. The development comprises several building complexes, roading and drainage systems.

![](_page_68_Picture_3.jpeg)

Figure 18 Aerial view of Technix site, and associated stormwater discharge (combined discharge with Dialog Fitzroy)

The stormwater network under the Technix site feeds into Dialog Fitzroy site before being discharged at outlet STW001021 in the Waiwhakaiho River. The northern area of the site is primarily used as a storage yard and was leased to Dialog Fitzroy for most of the monitoring year. However, Consent **9982-1** associated with this yard was transferred to Dialog Fitzroy in June 2023. Any stormwater collected in this area is discharged into the Mangaone Stream, via a 375mm concrete stormwater pipe, STW001154 (refer to Dialog, Section 3).

Technix hold Consent **0291-3** to discharge stormwater from an industrial site into the Waiwhakaiho River and Mangaone Stream. The consent has the standard special conditions as set out in section 1.2, along with a condition prohibiting discharges from the truck wash to the stormwater network. A copy of the consent is attached in Appendix I.

## 12.2 Results

### 12.2.1 Inspections

Three routine compliance monitoring inspections were conducted at the site during the monitoring period to assess compliance with resource consent conditions. These inspections were conducted on 27 October 2023, and 8 February, and 20 June 2024.

The Inspecting Officer noted that some onsite storm water grates might benefit from some fresh drainage socks around them to mitigate any potential for sediment laden storm water exiting the site.

It was also noted during that various containers containing substances were not stored in bunded areas. This had been observed in previous inspections. During the second inspection staff advised that these were to be disposed of off-site.

There was no activity occurring on site during the final inspection. Staff informed the Inspecting Officer that the site had been sold with new owners taking over on 2 July 2024.

### 12.2.2 Results of discharge monitoring

There is one routine sampling point for monitoring of stormwater discharges from Technix's site. The result from discharge STW001021 is reported in the Dialog Fitzroy section 4.2.2, this was compliant with the resource consent conditions.

The discharge to Mangaone Stream contains stormwater from the northeastern end of the Technix site (Consent **9982-1**). The results of sampling of this area are also presented in the Dialog Fitzroy section 3.2.2.

## 12.3 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 Technix. 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 Technix conditions in resource consents or provisions in Regional Plans.

# 12.4 Evaluation of performance

A tabular summary of the consent holder's compliance record for the period under review is set out in Table 43.

Purpose: To discharge stormwater from an industrial site into the Waiwhakaiho River			
	Condition requirement	Means of monitoring during period under review	Compliance achieved?
1.	Best practicable option to prevent or minimise effects	Inspections	Yes
2.	Catchment area not to exceed 2.2ha	Inspections	Yes
3.	No discharge to stormwater from truck wash after 31 December 2015	Inspections and liaison with consent holder	Yes
4.	Concentration limits upon potential contaminants in discharge	Chemical sampling	Yes
5.	Discharge cannot cause specified adverse effects beyond mixing zone	Visual assessment at inspection and receiving water sampling and biomonitoring	Yes
6.	Prepare and maintain Contingency Plan	Up to date as of August 2023, next review due August 2025	Yes
7.	Preparation of Stormwater Management Plan	Up to date as of August 2023, next review due August 2025	Yes
8.	Consent holder to notify Council of significant changes to processes or operations	Inspections and liaison with consent holder	Yes
9.	Provision for review of consent	Next option for review in June 2026	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent Overall assessment of administrative performance in respect of this consent			High High

Table 43Summary of performance for Technix Consent 0291-3

N/A = not applicable

During the period under review, Technix Group Ltd demonstrated a high level of environmental performance and administrative performance and compliance with their resource consents as defined in Appendix II.

# 13. Urban Aspect Limited

# 13.1 Site description

Urban Aspect Limited (Urban Aspect, previously Freight and Bulk Transport Holdings Ltd) operate a truck depot that services the rural sector from a 1.77 ha site on Katere Road (Figure 19). This site was previously monitored under the annual inspection round of truck washes and was incorporated into the Lower Waiwhakaiho Catchment Monitoring Programme at the start of the 2009/10 year.

![](_page_71_Picture_3.jpeg)

Figure 19 Aerial view of Urban Aspect site with associated sampling point

Urban Aspect stores, blends and distributes dry stock feeds such as crushed meal, palm kernel and grains. Lime, fertiliser and gravel used for farm races are also stored at the site. The lime, stock feeds and fertilisers are stored in the sheds at the northern end of the site; only the gravel is stored outside in the stormwater catchment. Trucks are washed at the site and the wash water was historically (until expiry of consent 0241) discharged to soak holes. During the 2018/19 monitoring period, a truck wash was installed that recycles wash water and discharges contaminants to trade waste.

Urban Aspect holds Consent **10008-1** to discharge stormwater onto and into land and into the Mangaone Stream. This consent contains nine standard special conditions set out in section 1.2. A copy of the consent is attached to this report in Appendix I.

## 13.2 Results

### 13.2.1 Inspections

Three routine compliance monitoring inspections were conducted at the site during the monitoring period to assess compliance with resource consent conditions. These inspections were conducted on 14 August 2023, and 1 February and 19 June 2024.
Storm water appeared to be draining away and their designated areas and appeared largely unobstructed. No evidence of improperly stored materials that may pose a risk to storm water and a spill kit was observed next to fuel tank. During the second inspection the Inspecting Officer recommended that a silt sock be installed along with an earth bund at the top of the bank where earthworks were occurring to divert storm water to stop run off and put appropriate silt and sediment controls in place.

## 13.2.2 Results of discharge monitoring

Stormwater discharges from Urban Aspect's site are collected from a roadside stormwater drain located on the western driveway (site STW001146). This site was sampled on two occasions during the period under review. The results are given in Table 44.

Parameter	Unit	14 Aug 2023	29 May 2024	Consent limits
Temperature	°C	11.6	9.7	-
рН	рН	7.5	7.2	6.0 - 9.0
Conductivity	mS/m	7.0	9.4	-
Suspended solids	g/m³	108	16	100
Turbidity	NTU	-	18.9	-
CBOD <sub>5</sub>	g O <sub>2</sub> /m <sup>3</sup>	7.0	3.1	15
TBOD <sub>5</sub>	g O <sub>2</sub> /m <sup>3</sup>	3	-	-
Nutrients				
NH <sub>3</sub>	g/m³	0.0051	0.00102	0.025*
NH <sub>4</sub>	g/m³	0.69	0.32	-
DRP	g/m <sup>3</sup>	0.22	0.156	-

Table 44 Urban Aspect stormwater sampling results, site STW001146

\*NH3 limits apply to receiving waters downstream of the discharge

The results were generally compliant with consent conditions, except on 14 August 2023 when the suspended solids concentration exceeded the consent limit. The sampling was undertaken during a heavy rain event. A discussion was had with the consent holder regarding the total suspended solids reading at 108g/m<sup>3</sup> when the consented limit is 100g/m<sup>3</sup>. It was considered that the exceedance was marginal and their response was accepted. Urban Aspect advised that they could improve on their house keeping efforts and intend to do so. Discussion was had around mitigation methods for keeping the yard as clean and clear as possible to reduce any discharge of excessive silt laden storm water from the catchment.

## 13.3 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 Urban Aspect. During the year matters may arise which require additional activity by the Council, for example provision of advice and information, or investigation of potential or actual causes of non-compliance or failure to maintain good practices. A pro-active approach, that in the first instance avoids issues occurring, is favoured.

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

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

Table 45 below sets out details of any incidents recorded, additional investigations, or interventions required by the Council in relation to Urban Aspect activities during the 2023/24 period. This table presents details of all events that required further investigation or intervention regardless of whether these were found to be compliant or not.

 Table 45
 Incidents, investigations, and interventions summary table

Date	Details	Compliant (Y/N)	Enforcement Action Taken?	Outcome
31 Aug 2023	Suspended solids in stormwater discharge exceeded consent limit.	N	Letter of explanation	Urban Aspect undertook to improve housekeeping practises.

# 13.4 Evaluation of performance

A tabular summary of the consent holder's compliance record for the period under review is set out in Table 46.

 Table 46
 Summary of performance for Urban Aspect Consent 10008-1

Purpose: To discharge stormwater onto and into land and into the Mangaone Stream		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Adopt best practical option	Inspection and programme supervision	Yes
2. Stormwater catchment not to exceed 1.77ha	Inspection	Yes
3. Limits on contaminants in discharge	Sampling	No. Suspended solids exceeded limit on one occasion
<ol> <li>Discharge cannot cause specified adverse effects beyond mixing zone</li> </ol>	Visual assessment at inspection and receiving water sampling and biomonitoring	Yes
5. Maintain and adhere to a contingency plan	Inspection and programme supervision	Yes
6. Maintain and adhere to a stormwater plan	Updated plan provided May 2019	Yes
7. Notify the Council of changes at the site	Inspection and liaison with consent holder	N/A
8. Lapse condition	Consent exercised	N/A
9. Review condition	Option for review in June 2026	N/A
Overall assessment of consent compliance ar	Good	
Overall assessment of administrative performance in respect of this consent High		

N/A not applicable

During the period under review, Urban Aspect Limited demonstrated a good level of environmental and a high level of administrative performance and compliance with their resource consent as defined in Appendix II.

# 14. Waste Management NZ Ltd

# 14.1 Site description

Waste Management NZ Ltd (Waste Management) operate a refuse transfer depot on Katere Road, New Plymouth (Figure 20). Activities on the site include the receipt and temporary storage of general refuse (non-hazardous solid waste). The site does not use or store any hazardous substances. Refuse is deposited onto a transfer pad on site by truck or from smaller bins. Sorting takes place into recyclables-glass cardboard and plastic. Most refuse is loaded onto a truck and driven to a landfill near Marton.

The refuse storage area is usually cleared at the commencement of each day's activities, but on occasions there is excess refuse left within the storage area over night. This is the first refuse to be loaded the next morning. Empty used bins are stored on the wash pad which is connected to NPDC trade waste system. These bins are then washed with a water blaster and the runoff is directed to the trade waste system. Washed bins are then generally moved to the yard where they are stored until required in the future.



Figure 20 Aerial view of Waste Management site and sampling location

Waste Management holds Consent **10430-1** to discharge stormwater from a waste depot into an unnamed tributary of the Mangaone Stream. This consent contains nine conditions, eight of which are the standard special conditions as set out in section 1.2. Condition four sets out the discharge contaminant limits, including carbonaceous biochemical oxygen demand. A copy of the permit is attached to this report in Appendix I.

# 14.2 Results

## 14.2.1 Inspections

Three routine compliance monitoring inspections were conducted at the site during the monitoring period to assess compliance with resource consent conditions. These inspections were conducted on 14 August 2023, and 1 February and 19 June 2024.

Wind strewn rubbish was observed about the site during two of the inspections and staff advised that an employee was being commissioned to undertake rubbish collection.

A blocked drain was noted during the second inspection, and this was still blocked at the time of the third inspection. A hydrocarbon sheen was observed on another drain. The Inspecting Officer recommended that the drains be cleaned out to avoid possible non-compliance.

During the final inspection a spill occurred from green bin containing vegetable oil. A spill kit was accessed and absorbent placed on the spill. It was noted that tracking had occurred from truck tires, however this had not migrated to the open grated drain nearby.

## 14.2.2 Results of discharge monitoring

Sampling of the Waste Management stormwater discharge was undertaken two occasions at site STW002098. The results are given in Table 47.

Parameter	Unit	14 Aug 2023	29 May 2024	Consent limits
Temperature	°C	12.4	8.9	-
рН	рН	6.7	7.2	6.0 - 9.0
Conductivity	mS/m	16.6	8.9	-
Suspended solids	g/m³	121	92	-
Turbidity	NTU/FNU⁺	132	66+	-
CBOD <sub>5</sub>	g O <sub>2</sub> /m³	64	2.6	20*
TBOD <sub>5</sub>	g O <sub>2</sub> /m³	64	5.6	-
Total hydrocarbons	g/m³	2.9	< 0.7	15*
Nutrients				
NH₃	g/m³	0.000017	0.00053	0.025
NH <sub>4</sub>	g/m³	0.013	0.21	-
DRP	g/m³	0.033	0.018	-

Table 47 Waste Management stormwater sampling results, site STW002098

\* A CBOD limit of 2g/m<sup>3</sup> also applies in-stream. Hydrocarbons measured in place of oil & grease

The samples collected complied with the oil and grease and pH limits set by the consent and were within historical ranges for the site. The carbonaceous biochemical oxygen demand concentration in the discharge exceeded the consent limit of 20g/m<sup>3</sup>. However, the lab had to re-analyse the sample with an unpreserved aliquot because it was not diluted enough during the initial testing. Due to the uncertainty in the sample analysis no further action was taken.

# 14.3 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 Waste Management. 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 Waste Management's conditions in resource consents or provisions in Regional Plans.

# 14.4 Evaluation of performance

A tabular summary of the consent holder's compliance record for the period under review is set out in Table 48.

Pu	Purpose: To discharge stormwater from a waste depot into an unnamed tributary of the Mangaone Stream			
	Condition requirement	Means of monitoring during period under review	Compliance achieved?	
1.	Adopt best practicable option to avoid, remedy or mitigate effects	Inspections and consultation with site operators	Yes	
2.	Leachate to be diverted from stormwater by January 2018	Inspections and consultation with site operators	Yes	
3.	Limit on catchment size	Inspections and consultation with site operators	Yes	
4.	Limits on chemical composition of discharge	Observation during inspections and discharge sampling	Yes	
5.	Limit on effects in receiving water	Observation during inspections and sampling	Yes	
6.	Maintain contingency plan	Document received in July 2023	Yes	
7.	Operate site in accordance with Management Plan	Document received in July 2023	Yes	
8.	Notification of changes at the site	Inspections and consultation with site operators	Yes	
9.	Review conditions	Next option for review in June 2026	N/A	
Overall assessment of consent compliance and environmental performance in respect of this consent			High	
Overall assessment of administrative performance in respect of this consent			High	

 Table 48
 Summary of performance for Waste Management Consent 10430-1

N/A = not applicable

During the period under review, Waste Management NZ Ltd demonstrated a high level of environmental performance and high level of administrative performance and compliance with its resource consent as defined in Appendix II.

# 15. Surface water quality

# 15.1 Chemical sampling surveys

The results of chemical analysis of the receiving water for the period under review given in the subsections below. Refer to section 1.3.4 for the sampling strategy. Monitoring locations are shown in Figure 1.

## 15.1.1 Waiwhakaiho River wet weather survey

The lower Waiwhakaiho River was sampled at three points (see below) under wet weather discharge monitoring conditions in May 2024, with results provided in Table 49.

### Merrilands Domain (site code WKH000800)

At the riffle just upstream of the swimming area in the Waiwhakaiho River at the Merrilands Domain, about 5.4km from the coast. This is the upstream, or control site with respect to NPDC's Burton Street stormwater discharge.

#### Constance Street (site code WKH000920)

At the first bend below Devon Road bridge, about 2.6km from the river mouth. This is the upstream, or control site, with respect to monitoring discharges to the lower Waiwhakaiho River from New Plymouth industrial area including the groundwater discharge from the Bewley Road landfill.

#### Above Mangaone (site code WKH000942)

Immediately above the confluence with the Mangaone Stream and any tidal saline influence, beside the eastern bank opposite Lake Rotomanu, about 1,300m from the river mouth. This is the downstream monitoring site for discharges from Firth (Consent 0392-4), Dialog Fitzroy (Consents 0021-4, 9853-2, and 9981-1), and the Technix operations along Rifle Range Road (Consent 0291-3).

Parameters	Units	WKH000800	WKH000920	WKH000942
Temperature	°C	9.8	10.0	10.4
рН	рН	7.7	7.7	7.8
Conductivity	mS/m	11.8	11.9	12.1
Suspended solids	g/m³	3	3	3
Turbidity	FNU	2.1	2.4	1.7
Fluoride	g/m³	-	0.06	0.06
Total hydrocarbons	Visually assessed	Pass	Pass	Pass
Nutrients				
NH <sub>3</sub>	g/m³	0.00009	< 0.00010	< 0.00011
NH <sub>4</sub>	g/m³	0.010	< 0.010	< 0.010
NNN	g/m³	-	0.24	0.23
DRP	g/m³	0.017	0.013	0.012

Table 49	Results of wet weather monitoring of lower Waiwhakaiho River 29 May 2024	1
	Results of wet weather monitoring of lower warwhakamo river, 25 way 202-	τ.

There was very little variation between parameters downstream of the river compared to the upstream concentrations. Concentrations of ammoniacal nitrogen (NH<sub>4</sub>) and unionised ammonia (NH<sub>3</sub>) were below the respective ANZECC trigger guideline of 0.9g/m<sup>3</sup> and the RFWP guideline of 0.025g/m<sup>3</sup>. Instream levels of DRP downstream of the industrial area were found to be below the 0.03-0.15g/m<sup>3</sup> range that may support

algal growth. Overall, there was no discernible trend of increasing contaminant concentrations between the up and downstream receiving waters.

## 15.1.2 Mangaone Stream wet weather survey

The Mangaone Stream was sampled at five points (see below) under wet weather discharge monitoring conditions in May 2024, with results provided in Table 50.

#### Egmont Road (site code MGO000050)

The uppermost site at Egmont Road Bridge.

#### Downstream of NPDC mid Katere Road (site code MGO000075)

A site established in 2007 approximately 10m downstream of the NPDC mid Katere Road stormwater discharge. This site also acts as an upstream "control site" for TSM's timber treatment site.

#### Above old Ravensdown (site code MGO000148)

A site established in 1996 immediately above the main stormwater drain of the Bunnings (old Ravensdown) depot (and also above the confluence of the Mangamiro Stream). This site was primarily established to enable differentiation of the influence of major tributaries below Egmont Road, particularly the Puremu and Manganaha Streams which flow through Colson Road landfill, from that of discharges from the Bunnings site.

#### Katere Road bridge (site code MGO000153)

Below the discharge from Bunnings site, and at the end of the mixing zone specified in the company's Consent **3865-4.1**.

#### Rifle Range Road (site code MGO000190)

The bottom site at the Rifle Range Road Bridge, immediately above the Waiwhakaiho confluence and about 50m below the discharge point of Downer's site.

Parameter	Unit	MGO000050	MGO000075	MGO000153	MGO000190
Temperature	°C	10.8	10.9	11.1	10.9
рН	pН	7.2	7.4	7.5	7.5
Conductivity	mS/m	17.4	15.9	16.9	17.6
Suspended Solids	g/m³	11	8	6	16
Turbidity	FNU	8.4	9.1	5.5	14.1
Metals (dissolved)					
Copper	g/m³	0.0007	0.0017	-	0.0016
Zinc	g/m³	0.0027	0.0142	-	0.021
Nutrients					
NH₃	g/m³	-	0.00039	0.0036	0.0027
NH <sub>4</sub>	g/m³	_	0.070	0.60	0.40
DRP	g/m³	-	0.005	0.010	0.012

#### Table 50 Results of wet weather monitoring of Mangaone Stream, 29 May 2024

Nutrient levels were below the ANZECC trigger guideline of 0.9g/m<sup>3</sup> (NH<sub>4</sub>), the RFWP guideline of 0.025g/m<sup>3</sup> (NH<sub>3</sub>) and nuisance algal growth 0.03-0.15g/m<sup>3</sup> (DRP) during sampling in May 2024. Nutrient levels did show an increase, by around nine-fold, between the up-gradient site MGO000075 and the down-gradient site MGO000153. This suggests there is some nutrient input to the Mangaone Stream from local activities in the area.

Metal and metalloid concentrations are monitored in the Mangaone Stream to determine what, if any, effects may be occurring due to the discharges from TSM and other industrial discharges. Sources of these contaminants include (to varying extents) the industrial sites and other non-point sources such as run-off from roads.

Low level analyses for zinc and copper were also performed on samples taken at the Egmont Road site (MGO000050) to monitor the effects of stormwater discharged upstream of the industries monitored under this programme. This site is also monitored for McKechnie Aluminium Solutions Ltd as part of their compliance monitoring programme as historically, copper and brass were processed at this site. There was an increase in copper concentrations between the up-gradient and down-gradient sites sampled in May 2024. Levels of zinc also increased significantly between sites located in the upper and mid catchment, and at the down-gradient sites. Overall, the concentration of zinc in the Mangaone Stream was low.

# 15.2 Freshwater biomonitoring

## 15.2.1 Fish surveys

On 27 and 28 March 2024, electrofishing surveys were conducted at three sites in the Mangaone Stream and two sites in the Waiwhakaiho River as a component of the 2023/24 monitoring programme to monitor discharges from the combined industries of the Fitzroy (Lower Waiwhakaiho) industrial area.

A total of six species were recorded in the survey; longfin eel, shortfin eel, redfin bully, brown trout, inanga, and yellow eye mullet. There was no indication that industrial discharges to the Mangaone Stream and Waiwhakaiho River had had a detrimental effect upon the fish communities of the waterways prior to this survey, and numbers had greatly increased from the previous survey.

The current level of monitoring was deemed appropriate, and it was recommended that future monitoring repeat that undertaken in the current survey, being a three site electric fishing survey in the Mangaone Stream and two site electric fishing survey in the Waiwhakaiho River, undertaken every three years.

# 16. Discussion

## 16.1 Discussion of site performance

A total of 37 site visits were made to consent holders in the Lower Waiwhakaiho Catchment during the monitoring year under review.

In general, sites were found to be relatively clean and well-maintained. General housekeeping, site sweeping, windblown refuse, drain cleaning and sediment controls were the most frequently mentioned areas requiring attention as noted by Inspecting Officers. Staff onsite were generally compliant and carried out required works in appropriate timeframes. Spills, sheens, and leaks noted onsite were dealt with at the time of each visit, and consent holders undertook upgrades and/or repairs to equipment and plant on each site as required.

The environmental monitoring at Bunnings indicated that the site is still leaching fertiliser residue into groundwater.

The suspended solids level exceeded consent limits in a stormwater sample from the at the Dialog site. Dialog undertook works to prevent this happening in future and there was no further action required from Council.

Downer was issued an abatement notice for the improper storage of resins and paints. These were relocated.

Ravensdown was issued an abatement notice due to the discovery of an ammoniacal nitrogen level ten times above the consent limit. Measures were put in place at the site to prevent a reoccurrence.

The suspended solids in a stormwater sample from Taranaki Sawmills site exceeded the consent limit. A letter of explanation was requested. A drain sock was installed to prevent future occurrences, and no further action was taken.

The suspended solids in a stormwater sample from the Urban Aspect site also exceeded their consent limit. A letter of explanation was requested. A drain sock was installed to prevent future occurrences, and no further action was taken.

## 16.2 Environmental effects of exercise of consents

Council water quality surveys of both the Mangaone Stream and the lower Waiwhakaiho River showed that the concentrations of contaminants were generally relatively stable throughout the length of the catchment. The primary contaminants of concern were metals and metalloids, nutrients (nitrogen and phosphorus), sulphates, suspended sediment, and both chemical and biological oxygen demand. Of these, the nutrient values and zinc levels showed slight increases between upstream and downstream sites in the Mangaone Stream. The source of these slight increases is well discussed in previous monitoring reports.

Metals and metalloid concentrations fluctuated throughout the catchment, and in-stream values were closely related to proximity to the source (site stormwater discharges). All results for the period under review were within ANZECC and RFWP guidelines.

Suspended solids were the most frequently found contaminant of concern in site stormwater discharges. Samples collected from surface water sites, however, did not show any significant visual or chemical effects related to these discharges, indicating they were not having any measurable impact on the waterways.

All other contaminants in both surface and groundwater were generally within consented limits and New Zealand Drinking Water Standards guidelines. The exception of pH levels and sulphate concentrations in

two groundwater bores at the Bunnings site. However, results were within the expected range for these contaminants at this site.

The results from three of the four macroinvertebrate surveys indicated that discharges in the Waiwhakaiho industrial area have caused adverse impacts on the macroinvertebrate communities in both the Waiwhakaiho River and the Mangaone Stream, however due to the complexity of the system it is difficult to link the decline to any single discharge from the Lower Waiwhakaiho Industrial area in the Mangaone Stream.

## 16.2.1 Macroinvertebrate surveys

The Council collected streambed macroinvertebrates at five sites in the Mangaone Stream and three sites in the Waiwhakaiho River on 14 November 2023 and 20 March 2024, in order to assess whether discharges from the Lower Waiwhakaiho Industrial area had had any adverse effects on the macroinvertebrate communities of these streams. Macroinvertebrates were identified and the number of different types of taxa counted (taxa richness), and MCI and SQMCI scores were calculated for each site.

The MCI is a measure of the overall sensitivity of the macroinvertebrate community to the effects of nutrient pollution in streams. It is based on the presence/absence of taxa with varying degrees of sensitivity to pollution. The SQMCI takes into account taxa abundance as well as sensitivity to pollution and may reveal more subtle changes in communities. Significant differences in either the MCI or the SQMCI between sites indicate the degree of adverse effects (if any) of the discharges being monitored and enable the overall health of the macroinvertebrate communities to be determined.

### 16.2.1.1 Macroinvertebrate survey of 14 November 2023

#### Waiwhakaiho River

The Waiwhakaiho River sites had moderate macroinvertebrate community richness, with sites 7, 8 and 13 recording 17, 17 and 14 taxa, respectively. Further, EPT taxa comprise the pollution sensitive Ephemeroptera (mayfly), Plecoptera (stonefly) and Trichoptera (caddisfly) insect groups. The number of EPT taxa at sites 7, 8 and 13 were eight, ten and five taxa, respectively, with a percentage of 47, 59 and 36 EPT taxa, respectively.

MCI scores were 100, 111 and 94 units at sites 7, 8 and 13, respectively. These scores categorized sites 7 and 8 as having 'good' macroinvertebrate community health, while site 13 was graded as having 'fair' health. These scores can likely be attributed to the number of EPT taxa present at each site, as described above. The SQMCI scores were 3.6, 3.8 and 3.7 at sites 7, 8 and 13, respectively. These scores were reflective of a 'poor' macroinvertebrate community health at all sites, with no significant difference amongst scores.

Overall, there appeared to be a decline in macroinvertebrate community health between sites 8 and 13, however, due to the complexity of the system, it difficult to link the decline to any single discharge from the Lower Waiwhakaiho Industrial area in the Waiwhakaiho River.

#### Mangaone Stream

The Mangaone Stream sites had low to moderate macroinvertebrate community richness and decreased in a downstream direction, with sites 12, 16, 14, 15 and 11 recording 17, 12, 11, 8 and 7 taxa, respectively (Figure 21).

The number of EPT taxa decreased in a downstream direction (five, three, one, zero and zero EPT taxa at sites 5, 3, 1, 0 and 0, respectively), with the percentage of EPT taxa decreasing downstream also (29%, 25%, 9%, 0% and 0%, respectively).

MCI scores were 84, 83, 82, 60 and 57 units at sites 12, 16, 14, 15 and 11, respectively. These scores categorised sites 12, 16 and 14 in 'fair' macroinvertebrate community health, site 15 in 'poor' health and site 11 in 'very poor' health. Overall, MCI scores at sites 12, 16 and 14 were similar to each other, but

significantly greater than the MCI scores of sites 15 and 11 downstream. The SQMCI can be more sensitive to organic pollution compared with the MCI as it also takes into account taxa abundances. Current SQMCI scores 3.8, 3.5, 3.6, 3.4 and 3.6 units at sites 12, 16, 14, 15 and 11, respectively. These scores were reflective of 'poor' macroinvertebrate community health at all sites, with no significant difference amongst scores.

Overall, there appeared to be a decline in macroinvertebrate community health in a downstream direction, however due to the complexity of the system it is difficult to link the decline to any single discharge from the Lower Waiwhakaiho Industrial area in the Mangaone Stream.



Figure 21 Macroinvertebrate index results 14 November 2023

#### 16.2.1.2 Macroinvertebrate survey of 20 March 2024

#### Waiwhakaiho River

The Waiwhakaiho River sites had moderately low macroinvertebrate community richness, with sites 7, 8 and 13 recording 13, 11 and 14 taxa, respectively. EPT taxa comprise the pollution sensitive Ephemeroptera (mayfly), Plecoptera (stonefly) and Trichoptera (caddisfly) insect groups. The number of EPT taxa at sites 7, 8 and 13 were three, four and four taxa, respectively, with a percentage of 23, 36 and 29 EPT taxa abundance, respectively.

MCI scores were 86, 91 and 80 units at sites 7, 8 and 13, respectively. These scores categorized all sites as having 'fair' macroinvertebrate community health. Even though all sites fell into the same grading category, site 8 scored an MCI score significantly greater than site 13. The SQMCI scores were 3.5, 3.5 and 3.2 units at sites 7, 8 and 13, respectively. These scores were reflective of a 'poor' macroinvertebrate community health at all sites, with no significant difference amongst scores.

Overall, since there were no major differences in the macroinvertebrate community profiles amongst sampled sites, it appeared that at the time of sampling the discharges from the Lower Waiwhakaiho Industrial area had no significant adverse effects on the macroinvertebrate communities in the Waiwhakaiho River sampling sites.

#### Mangaone Stream

The Mangaone Stream sites had moderately low macroinvertebrate community richness with sites 12, 16, 14, 15 and 11 recording 13, 14, 10, 9 and 11 taxa, respectively (Figure 22). The number of EPT taxa decreased in a downstream direction, with four, two, one, one and zero EPT taxa recorded at sites 12, 16, 14, 15 and 11,

respectively. Similarly, the percentage of EPT taxa decreased from 31% at site 12 to 14%, 10%, 11% and 0% at site 11.

MCI scores were 82, 73, 70, 60 and 58 units at sites 12, 16, 14, 15 and 11, respectively. These scores categorised site 12 in 'fair' macroinvertebrate community health, sites 16 to 15 in 'poor' health and site 11 in 'very poor' health. MCI scores declined in a downstream direction, with the most upstream site 12 recording significantly greater than the three most downstream sites. Current SQMCI scores 4.5, 4.3, 3.9, 4.0 and 2.9 units at sites 12, 16, 14, 15 and 11, respectively. These scores were reflective of 'fair' macroinvertebrate community health at sites 12, 16 and 15, 'poor' health at site 14 and 'very poor' health at site 11. Site 11, the furthermost downstream site, scored a significantly lower SQMCI score compared to all other sites while the four upstream sites recorded similarly.

Overall, it appeared that there was a decline in macroinvertebrate community health in a downstream direction, however due to the complexity of the system it is difficult to link the decline to any single discharge from the Lower Waiwhakaiho Industrial area in the Mangaone Stream.



Figure 22 Macroinvertebrate index results 20 March 2024

Copies of biomonitoring reports for this site are available from the Council upon request.

# 16.3 Evaluation of performance

Tabular summaries of each consent holders' compliance record for the period under review are set out in their individual sections of this report.

## 16.4 Recommendations from the 2022/23 Annual Report

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

- 1. THAT monitoring of consented activities at **AML/Holcim** in the 2023/24 year continue at the same level as in 2022/23.
- 2. THAT **AML/Holcim** investigates and mitigates the source of suspended solids in stormwater discharges from their site, to ensure compliance with Abatement Notice EAC-22058.
- 3. THAT for 2023/24, the programme for **Bunnings Limited** remains similar to that programmed for the 2022/23 period.

- 4. THAT monitoring of discharges from **Dialog Fitzroy Ltd** in the 2023/24 year continues at the same level as in 2022/23.
- 5. THAT monitoring of consented activities at **Downer EDI Works Ltd** in the 2023/24 year remains similar to that in 2022/23.
- 6. THAT monitoring of consented activities at **Enviro NZ** in the 2023/24 year remains similar to that in 2022/23.
- 7. THAT monitoring of discharges from **Firth Industries Ltd** in the 2023/24 year remains similar to that programmed in 2022/23.
- 8. THAT monitoring of discharges covered by consents held by **New Plymouth District Council** in the 2023/24 period continues at similar a level to that undertaken in the 2022/23 period.
- 9. THAT monitoring of discharges from **KiwiRail Holding Ltd and New Zealand Railways Corporation Ltd** in the 2023/24 period remains similar to that programmed in the 2022/23 period.
- 10. THAT monitoring of discharges from **Ravensdown Fertiliser Co-operative Ltd** in the 2023/24 period continues at a similar level as that undertaken in the 2022/23 period.
- 11. THAT **Ravensdown Fertiliser Co-operative Ltd** continue to make improvements to the site to ensure compliance with Abatement Notice EAC-24575.
- 12. THAT the monitoring programme for discharges from **Taranaki Sawmills Ltd** in the 2023/24 period continues at a similar level as that undertaken in the 2022/23 period.
- 13. THAT monitoring of discharges from **Technix Group Ltd** in the 2023/24 period continuess at a similar level as that undertaken in the 2022/23 period.
- 14. THAT monitoring of discharges from **Urban Aspect Limited** in the 2023/24 year remain similar to that programmed in 2022/23.
- 15. THAT monitoring of discharges from **Waste Management NZ Ltd** in the 2023/24 remains similar to that programmed for the 2022/23 period.
- 16. THAT, an additional 'control' site be included in the biomonitoring surveys near the SH3 bridge on the Waiwhakaiho River.
- 17. THAT further investigation is undertaken in relation to a possible deleterious discharge which may be having adverse effects on downstream aquatic life as indicated by the results of both macroinvertebrate surveys undertaken during the 2022/23 period.
- 18. THAT should there be issues with environmental or administrative performance with any of the consent holders in 2023/24, monitoring may be adjusted to reflect any additional investigation or intervention as found necessary.

Recommendations one to 15 and 18 were implemented. An additional control site has been added to the biomonitoring as per recommendation 16 and this will be surveyed during the 2025/26 year, while recommendation 17 will be investigated further in the 2025/26 period if warranted.

# 16.5 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 significant changes have been made to the 2024/25 monitoring programme. Site WKH000800 has been added to the biomonitoring, as proposed in recommendation 16 above.

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

# 16.6 Exercise of optional review of consent

Resource Consent **3865-4.1** provides for an optional review of the consent in June 2025. Condition 11 allows the Council to review the consent, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment.

Based on the results of monitoring in the year under review, and in previous years as set out in earlier annual compliance monitoring reports, it is considered that there are no grounds that require a review to be pursued.

# 17. Recommendations

- 1. THAT for 2024/25, the programme for **Bunnings Ltd** remains similar to that programmed for the 2023/24 period.
- 2. THAT monitoring of discharges from **Dialog Fitzroy Ltd** in the 2024/25 year continues at the same level as in 2023/24.
- 3. THAT monitoring of consented activities at **Downer EDI Works Ltd** in the 2024/25 year remains similar to that in 2023/24.
- 4. THAT monitoring of consented activities at **Enviro NZ** in the 2024/25year remains similar to that in 2023/24.
- 5. THAT monitoring of discharges from **Firth Industries Ltd** in the 2024/25 year remains similar to that programmed in 2023/24.
- 6. THAT in monitoring of consented activities at **Holcim NZ Ltd** in the 2024/25 year continues at the same level as in 2023/24
- 7. THAT monitoring of discharges from **KiwiRail Holding Ltd** and **New Zealand Railways Corporation Ltd** in the 2024/25 period remains similar to that programmed in the 2023/24 period.
- 8. THAT monitoring of discharges covered by consents held by **New Plymouth District Council** in the 2024/25 period continues at similar a level to that undertaken in the 2023/24 period.
- 9. THAT monitoring of discharges from **Ravensdown Fertiliser Co-operative Ltd** in the 2024/25 period continues at a similar level as that undertaken in the 2023/24 period.
- 10. THAT monitoring programme for discharges from **Taranaki Sawmills Ltd** in the 2024/25 period continues at a similar level as that undertaken in the 2023/24 period.
- 11. THAT monitoring of discharges from **Technix Group Ltd** in the 2024/25 period continues at a similar level as that undertaken in the 2023/24 period, for the new consent holder.
- 12. THAT monitoring of discharges from **Urban Aspect Limited** in the 2024/25 year remains similar to that programmed in 2023/24
- 13. THAT monitoring of discharges from **Waste Management NZ Ltd** in the 2024/25 remains similar to that programmed for the 2023/24 period.
- 14. 18. THAT should there be issues with environmental or administrative performance with any of the consent holders 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:

ANZECC	Australia New Zealand Environment and Conservation Council.
As*	Arsenic.
Biomonitoring	Assessing the health of the environment using aquatic organisms.
BOD	Biochemical oxygen demand. A measure of the presence of degradable organic matter, taking into account the biological conversion of ammonia to nitrate.
BODF	Biochemical oxygen demand of a filtered sample.
Bund	A wall around a tank to contain its contents in the case of a leak.
CBOD	Carbonaceous biochemical oxygen demand. A measure of the presence of degradable organic matter, excluding the biological conversion of ammonia to nitrate.
COD	Chemical oxygen demand. A measure of the oxygen required to oxidise all matter in a sample by chemical reaction.
Conductivity	An indication of the level of dissolved salts in a sample, measured at 25 °C and expressed in mS/m.
Cu*	Copper.
DO	Dissolved oxygen.
DRP	Dissolved reactive phosphorus.
DWSNZ	Drinking Water Standards New Zealand.
EEL	An environmental exposure limit (EEL) establishes the maximum concentration of an ecotoxic substance that is allowable in a particular environmental medium (for example, water, soil or sediment). This includes the deposition of a substance onto surfaces (for example via spray drift).
F	Fluoride.
FNU	Formazin nephelometric units, a measure of the turbidity of water.
Fresh	Elevated flow in a stream, such as after heavy rainfall.
g/m³	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.
НС	Hydrocarbon. Also expressed as the relevant solvent e.g. C7-C9, C10-C14, C15-C36.
IBC	Intermediate bulk container, a square 1000 L plastic tank, generally encased in a steel cage.
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.
IPBC	lodopropynyl Butyl Carbamate- carbamate based fungicide used for treating timber.
LOSP	Light organic solvent preservative- a class of wood treatment compounds that include PRCA, TEBA and IPBC.
L/s	Litres per second.
m <sup>2</sup>	Square Metres.
MCI	Macroinvertebrate community index; a numerical indication of the state of biological life in a stream that takes into account the sensitivity of the taxa present to organic pollution in stony habitats.
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.
mS/m	Millisiemens per metre.
NH <sub>4</sub>	Ammonium, normally expressed in terms of the mass of nitrogen (N).
NH₃	Unionised ammonia, normally expressed in terms of the mass of nitrogen (N).
NNN	Nitrate-nitrite nitrogen, normally expressed in terms of the mass of nitrogen (N).
NTU	Nephelometric Turbidity Unit, a measure of the turbidity of water.
O&G	Oil and grease, defined as anything that will dissolve into a particular organic solvent (e.g. hexane). May include both animal material (fats) and mineral matter (hydrocarbons).
рН	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.
PRCA	Propiconazole- A triazole fungicide used to treat timber.
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	Resource Management Act 1991 and including all subsequent amendments.
SS	Suspended solids.
SQMCI	Semi quantitative macroinvertebrate community index.
TEBA	Tebuconazole- A triazole fungicide used to treat timber.
Temp	Temperature, measured in °C (degrees Celsius).
Turb	Turbidity, expressed in NTU or FNU.
ТР	Total Phosphorus.
Zn*	Zinc.

\*an abbreviation for a metal or other analyte may be followed by the letters 'As', to denote the amount of metal recoverable in acidic conditions. This is taken as indicating the total amount of metal that might be solubilised under extreme environmental conditions. The abbreviation may alternatively be followed by the letter 'D', denoting the amount of the metal present in dissolved form rather than in particulate or solid form.

For further information on analytical methods, contact a manager within the Environment Quality Department.

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# Appendix I

# Resource consents held by Companies in the Lower Waiwhakaiho River and Mangaone Stream Catchments

(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	Bunnings Limited
Consent Holder:	

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Decision Date: 6 August 2020

Commencement Date: 6 August 2020

## **Conditions of Consent**

Consent Granted: To discharge stormwater from a fertiliser storage depot onto and into land and into the Mangaone Stream and into the Waiwhakaiho River

Expiry Date: 1 June 2026

Review Date(s): June 2024, June 2025

Site Location: Corner of Devon Road & Smart Road, Glen Avon

Grid Reference (NZTM) 1696554E-5676954N discharge point 1 (Mangaone Stream) 1696112E-5677289N discharge point 2 (Waiwhakaiho River)

Catchment: Waiwhakaiho

Tributary: Mangaone

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

Page 1 of 4

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## **General condition**

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

## **Special conditions**

- 1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent.
- 2. The stormwater discharged shall be from a catchment area not exceeding 7.5 hectares located on land within the yellow boundary as indicated in Appendix 1 of this consent.
- 3. Constituents of the discharge shall meet the standards shown in the following table.

Constituent	<u>Standard</u>
pH	Within the range 6.0 to 9.0
suspended solids	Concentration not greater than 100 gm <sup>-3</sup>
oil and grease	Concentration not greater than 15 gm <sup>-3</sup>
dissolved reactive phosphorus	Concentration not greater than 30 gm <sup>-3</sup>

This condition shall apply at sampling sites IND004002 (NZTM 1696241E-5677096N) and site STW002003 (NZTM1696554E-5676954N).

- 4. From 1 April 2021 the consent holder shall ensure that there is always clear and safe allweather access to a point where the discharge can be sampled to check compliance with condition 3 above.
- 5. After allowing for reasonable mixing, within a mixing zone extending; 10 metres downstream of sampling site STW002003 and 200 metres downstream of site IND004002's final discharge point (at NZTM 1696277E-56773387N), each 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; and
  - f) an unionised ammonia concentration exceeding  $0.025 \text{ g/m}^3$ .

- 6. The consent holder shall maintain and regularly update a 'Contingency Plan' that details measures and procedures that will be undertaken to prevent, and to avoid environmental effects from, a spillage or any discharge of contaminants not authorised by this consent. The plan and any amended versions shall be provided to the Chief Executive of the Taranaki Regional Council.
- 7. 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 is to be managed to minimise the contaminants that become entrained in the stormwater and shall include as minimum:
  - a) the loading and unloading of materials;
  - b) general housekeeping; and
  - c) management of any stormwater treatment systems.

A Stormwater Management Plan template is available in the Environment section of the Taranaki Regional Council's web site <u>www.trc.govt.nz</u>.

8. The consent holder shall maintain groundwater bores listed in the table below in a manner that allows access and sampling.

TRC site code	Easting	Northing
GND1217	1696177	5677046
GND1218	1696238	5677091
GND2346	1696356	5677108
GND0517	1696412	5677149
GND0518	1696297	5676965

9. The consent holder shall maintain reasonable and safe foot access to the following stormwater sampling sites.

TRC site code	Easting	Northing
STW002003	1696554	1696554
IND004002	5676954	5676954

10. 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, the chemicals used or stored on site, or any development and/or remediation 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 <u>consents@trc.govt.nz</u>.

## Consent 3865-4.1

- 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:
  - a) annually during the month of June until 2025;
  - b) within 3 months of receiving a notification under special condition 10 above;

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.

Transferred at Stratford on 1 February 2024

For and on behalf of Taranaki Regional Council

izmela

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:	Dialog Fitzroy Limited Private Bag 2053 New Plymouth 4342
Decision Date:	12 March 2015

Commencement Date: 12 March 2015

# **Conditions of Consent**

Consent Granted:	To discharge stormwater from an industrial site into the Waiwhakaiho River
Expiry Date:	1 June 2032
Review Date(s):	June 2020, June 2026 and in accordance with special condition 10
Site Location:	691 Devon Road, Bell Block
Legal Description:	Lot 2 DP 470783 (Discharge source & site)
Grid Reference (NZTM)	1696451E-5677694N
Catchment:	Waiwhakaiho

## **General condition**

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

### **Special conditions**

- 1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent.
- 2. The stormwater discharged shall be from a catchment area not exceeding 3.3 ha.

Note: For the purpose of this condition the catchment area defined in this condition is a total for resource consent 0021-4.0 and 9853-2.0.

- 3. There shall be no discharge of contaminants from hydrotesting activities into the stormwater network.
- 4. The consent holder shall notify the Chief Executive, Taranaki Regional Council in writing at least 24 hours prior to undertaking any hydrotesting activities outside of the workshop. Notification shall include the location and date of the proposed discharge, and shall be emailed to <u>worknotification@trc.govt.nz</u>.
- 5. Constituents of the discharge shall meet the standards shown in the following table.

<u>Constituent</u>	<u>Standard</u>
рН	Within the range 6.0 to 9.0
suspended solids	Concentration not greater than 100 gm <sup>-3</sup>
oil and grease	Concentration not greater than 15 gm <sup>-3</sup>
chloride	Concentration not greater than 50 gm <sup>-3</sup>

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

- 6. After allowing for reasonable mixing, within a mixing zone extending 50 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.
- 7. The consent holder consent holder shall maintain and regularly update a 'Contingency Plan' that details measures and procedures to be undertaken to prevent spillage or any discharge of contaminants not authorised by this consent The plan shall be approved by the Chief Executive, Taranaki Regional Council, acting in a certification capacity as being adequate to avoid, remedy or mitigate the environmental effects of such an event.

- 8. The site shall be operated in accordance with a 'Stormwater 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 but not be limited to:
  - a) Identification of sources of contaminants,
  - b) Methods that will practised to ensure contaminants entering stormwater is at a practical minimum,
  - c) Methods that will be practised to ensure contaminants from hydrotesting activities will be prevented from entering stormwater;
  - d) the loading and unloading of materials;
  - e) maintenance of conveyance systems;
  - f) general housekeeping; and
  - g) management of any interceptor system.
- 9. 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. 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 <u>consents@trc.govt.nz</u>.
- 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:
  - a) during the month of June 2020 and/or June 2026 and/or
  - b) within 3 months of receiving a notification under special condition 9 above;

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.

Transferred at Stratford on 30 August 2019

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:	Dialog Fitzroy Limited Private Bag 2053 New Plymouth 4342
Decision Date:	12 March 2015

Commencement Date: 12 March 2015

## **Conditions of Consent**

Consent Granted:	To discharge stormwater from an industrial site into the Waiwhakaiho River
Expiry Date:	1 June 2032
Review Date(s):	June 2020, June 2026 and in accordance with special condition 10
Site Location:	691 Devon Road, Bell Block
Legal Description:	Lot 2 DP 470783 (Discharge source & site)
Grid Reference (NZTM)	1696577E-5677800N
Catchment:	Waiwhakaiho

## **General condition**

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

### **Special conditions**

- 1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent.
- 2. The stormwater discharged shall be from a catchment area not exceeding 3.3 ha.

Note: For the purpose of this condition the catchment area defined in this condition is a total for resource consent 0021-4.0 and 9853-2.0.

- 3. There shall be no discharge of contaminants from hydrotesting activities into the stormwater network.
- 4. The consent holder shall notify the Chief Executive, Taranaki Regional Council in writing at least 24 hours prior to undertaking any hydrotesting activities outside of the workshop. Notification shall include the location and date of the proposed discharge, and shall be emailed to <u>worknotification@trc.govt.nz</u>.
- 5. Constituents of the discharge shall meet the standards shown in the following table.

<u>Constituent</u>	<u>Standard</u>
рН	Within the range 6.0 to 9.0
suspended solids	Concentration not greater than 100 gm <sup>-3</sup>
oil and grease	Concentration not greater than 15 gm <sup>-3</sup>
chloride	Concentration not greater than 50 gm <sup>-3</sup>

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

- 6. After allowing for reasonable mixing, within a mixing zone extending 50 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.
- 7. The consent holder consent holder shall maintain and regularly update a 'Contingency Plan' that details measures and procedures to be undertaken to prevent spillage or any discharge of contaminants not authorised by this consent The plan shall be approved by the Chief Executive, Taranaki Regional Council, acting in a certification capacity as being adequate to avoid, remedy or mitigate the environmental effects of such an event.

- 8. The site shall be operated in accordance with a 'Stormwater 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 but not be limited to:
  - a) Identification of sources of contaminants,
  - b) Methods that will practised to ensure contaminants entering stormwater is at a practical minimum,
  - c) Methods that will be practised to ensure contaminants from hydrotesting activities will be prevented from entering stormwater;
  - d) the loading and unloading of materials;
  - e) maintenance of conveyance systems;
  - f) general housekeeping; and
  - g) management of any interceptor system.
- 9. 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. 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 <u>consents@trc.govt.nz</u>.
- 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:
  - a) during the month of June 2020 and/or June 2026 and/or
  - b) within 3 months of receiving a notification under special condition 9 above;

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.

Transferred at Stratford on 30 August 2019

For and on behalf of Taranaki Regional Council

A D McLay Director - Resource Management


- Name of Dialog Fitzroy Limited Consent Holder:
- Decision Date: 24 October 2014
- Commencement Date: 24 October 2014

# **Conditions of Consent**

Consent Granted: To discharge stormwater from an industrial site into the Waiwhakaiho River

- Expiry Date: 1 June 2032
- Review Date(s): June 2026 and in accordance with special condition 8
- Site Location: 691 Devon Road, Bell Block
- Grid Reference (NZTM) 1696449E-5677553N
- Catchment: Waiwhakaiho

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

Page 1 of 3

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

#### **Special conditions**

- 1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent.
- 2. The stormwater discharged shall be from a catchment area not exceeding 1.8 ha.
- 3. Constituents of the discharge shall meet the standards shown in the following table.

<u>Constituent</u>	Standard
pH	Within the range 6.0 to 9.0
suspended solids	Concentration not greater than 100 gm <sup>-3</sup>
oil and grease	Concentration not greater than 15 gm <sup>-3</sup>
chloride	Concentration not greater than 50 gm <sup>-3</sup>

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.

- 4. After allowing for reasonable mixing, within a mixing zone extending 50 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. The consent holder shall maintain and regularly update a 'Contingency Plan' that details measures and procedures that will be undertaken to prevent, and to avoid environmental effects from, a spillage or any discharge of contaminants not authorised by this consent. The plan shall be approved by the Chief Executive, Taranaki Regional Council, acting in a certification capacity.

- 6. Within three months of the granting of this consent, the site shall be operated in accordance with a 'Stormwater 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) identification of sources of contaminants,
  - b) methods that will practised to ensure contaminants entering stormwater is at a practical minimum,
  - c) the loading and unloading of materials;
  - d) maintenance of conveyance systems;
  - e) general housekeeping; and
  - f) management of the interceptor system.
- 7. 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 <u>consents@trc.govt.nz</u>.
- 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:
  - a) during the month of June 2020 and/or 2026 and/or
  - b) within 3 months of receiving a notification under special condition 7 above and/or
  - c) within 3 months of receiving the Stormwater Management Plan under special condition 6 above

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.

Transferred at Stratford on 5 October 2022

For and on behalf of Taranaki Regional Council

Wyndup

A D McLay Director - Resource Management

Name of	Downer EDI Works Limited
Consent Holder:	PO Box 272
	New Plymouth 4340

- Decision Date: 20 May 2015
- Commencement Date: 20 May 2015

- Consent Granted: To discharge treated stormwater and minor amounts of treated air scrubber waste water from an asphalt manufacturing plant onto land and into the Mangaone Stream
- Expiry Date: 1 June 2032
- Review Date(s): June 2020, June 2026 and in accordance with special condition 8
- Site Location: Rifle Range Road, New Plymouth
- Legal Description: Sec 4 SO 436795 (Discharge source & site)
- Grid Reference (NZTM) 1696712E-5677949N
- Catchment: Waiwhakaiho
- Tributary: Mangaone

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

#### **Special conditions**

- 1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent.
- 2. The stormwater discharged shall be from a catchment area not exceeding 6.5 Ha.
- 3. Constituents of the discharge shall meet the standards shown in the following table.

<u>Constituent</u>	<u>Standard</u>
рН	Within the range 6.0 to 9.0
suspended solids	Concentration not greater than 100 gm <sup>-3</sup>
total recoverable hydrocarbons	Concentration not greater than 15 gm <sup>-3</sup>

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.

- 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. The consent holder shall maintain and regularly update a 'Contingency Plan' that details measures and procedures that will be undertaken to prevent, and to avoid environmental effects from, a spillage or any discharge of contaminants not authorised by this consent. The plan shall be approved by the Chief Executive, Taranaki Regional Council, acting in a certification capacity.
- 6. 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 is to be managed to minimise the contaminants that become entrained in the stormwater and shall include as a minimum:
  - a) the loading and unloading of materials;
  - b) general housekeeping; and
  - c) management of the treatment systems.

- 7. 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. 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 <u>consents@trc.govt.nz</u>.
- 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:
  - a) during the month of June 2020 and/or June 2026; and/or
  - b) within 3 months of receiving a notification under special condition 7 above;

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

Signed at Stratford on 20 May 2015

For and on behalf of Taranaki Regional Council

A D McLay Director - Resource Management

Name of Consent Holder	Envirowaste Services Limited
	Penrose
	Auckland 1642

- Decision Date: 6 May 2015
- Commencement Date: 6 May 2015

# **Conditions of Consent**

Consent Granted: To discharge stormwater from an industrial site into the Puremu Stream and an unnamed tributary of the Mangaone Stream

- Expiry Date: 1 June 2032
- Review Date(s): June 2020, June 2026 and in accordance with special condition 9
- Site Location: 31 Colson Road, New Plymouth
- Legal Description: Lot 1 DP 3582, Pt Sections 144 and 145 Hua District, Pt Lot 1 DP 2210, Pt Purakau A2 2B, Pt Lot DP 8654, Pt Sections 19 Blk VI Paritutu SD (Discharge source & site)
- Grid Reference (NZTM) 1696639E-5676673N (Discharge point 1) 1696993E-5676758N (Discharge point 2)
- Catchment: Waiwhakaiho
- Tributary: Puremu Mangaone

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

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

#### **Special conditions**

- 1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent.
- 2. The stormwater discharged shall be from an area not exceeding 4.93 ha and as shown in the attached plan.
- 3. Constituents of the discharge shall meet the standards shown in the following table.

<u>Constituent</u>	<u>Standard</u>
рН	Within the range 6.0 to 9.0
suspended solids	Concentration not greater than 100 gm <sup>-3</sup>
oil and grease	Concentration not greater than 15 gm <sup>-3</sup>

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.

- 4. At the point at which the discharge enters the Mangaone Stream, 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. The consent holder shall maintain and regularly update a 'Contingency Plan' that details measures and procedures that will be undertaken to prevent, and to avoid environmental effects from, a spillage or any discharge of contaminants not authorised by this consent. The plan shall be approved by the Chief Executive, Taranaki Regional Council, acting in a certification capacity.
- 6. 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 is to be managed to minimise the contaminants that become entrained in the stormwater and shall include as minimum:
  - a) the loading and unloading of materials;
  - b) general housekeeping; and
  - c) management of the stormwater system.

- 7. 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. 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 <u>consents@trc.govt.nz</u>.
- 8. This consent shall lapse on 30 June 2020, unless the consent is given effect to before the end of that period or the Taranaki Regional Council fixes a longer period pursuant to section 125(1)(b) of the Resource Management Act 1991.
- 9. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review:
  - a) during the month of June 2020 and/or June 2026 and/or
  - b) within 3 months of receiving a notification under special condition 7 above;

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 6 May 2015

For and on behalf of Taranaki Regional Council

A D McLay Director - Resource Management



Figure 1 - Stormwater catchment area permitted by this consent (in yellow)

Name of	Firth Industries Limited
Consent Holder:	PO Box 3122
	New Plymouth 4341

- Decision Date: 21 July 2015
- Commencement Date: 21 July 2015

Consent Granted:	To discharge stormwater and treated wastewater into the Waiwhakaiho River
Expiry Data:	1 Juno 2022

- Expiry Date: 1 June 2032
- Review Date(s): June 2020, June 2026 and in accordance with special condition 10
- Site Location: Clemow Road, Fitzroy
- Legal Description: Lot 1 DP 10146 Lot 2 DP 15134 & Sec 219 Hua Dist (Discharge source & site)
- Grid Reference (NZTM) 1696258E-5677519N
- Catchment: Waiwhakaiho

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

#### **Special conditions**

- 1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent.
- 2. The stormwater discharged shall be from an area not exceeding 1.618 Ha.
- 3. All stormwater shall be directed for treatment through the stormwater treatment system for discharge in accordance with the special conditions of this permit.
- 4. Constituents of the discharge shall meet the standards shown in the following table.

<u>Constituent</u>	Standard
suspended solids	Concentration not greater than 100 gm <sup>-3</sup>
oil and grease	Concentration not greater than 15 gm <sup>-3</sup>

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.

- 5. After allowing for reasonable mixing, within a mixing zone extending 50 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) many significant adverse effects on aquatic life;
  - f) a pH of less than 6.0 or greater than 9.0;
  - g) a increase of pH greater than 0.5.
- 6. The consent holder shall maintain and regularly update a 'Contingency Plan' that details measures and procedures that will be undertaken to prevent, and to avoid environmental effects from, a spillage or any discharge of contaminants not authorised by this consent. The plan shall be approved by the Chief Executive, Taranaki Regional Council, acting in a certification capacity.

- 7. By 21 October 2015 the consent holder shall prepare an updated 'Management Plan' to be approved by the Chief Executive, Taranaki Regional Council, acting in a certification capacity. The plan shall detail how the site is to be managed to minimise the contaminants that become entrained in the stormwater and shall include as minimum:
  - a) the loading and unloading of materials;
  - b) general housekeeping;
  - c) design drawings and specifications for proposed upgrades to the wastewater treatment system and site improvements as set out in pre-design documents submitted in support of application 0392-4.0 by Firth Industries Limited on 3<sup>rd</sup> and 4<sup>th</sup> March 2015;
  - d) a schedule of time frames for the construction and commissioning of proposed wastewater treatment system and site improvements;
  - e) a schedule of inspections and maintenance of wastewater and stormwater treatment systems; and
  - f) any extra stilt controls and stormwater management to be undertaken during construction of the upgrades.
- 8. By 22 February 2016 the consent holder shall undertake site improvements and upgrades to the wastewater treatment system as set out in the management plan required by condition seven. After 22 February 2016 wastewater shall not be included in the stormwater discharge.
- 9. 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, site improvement construction, and or change in treatment systems. 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 <u>consents@trc.govt.nz</u>.
- 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:
  - a) during the month of June 2020 and/or June 2026;
  - b) within 3 months of receiving a notification under special condition 9 above;

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

Signed at Stratford on 21 July 2015

For and on behalf of Taranaki Regional Council

A D McLay Director - Resource Management



Name of	Holcim New Zealand Limited
Consent Holder:	

Decision Date: 30 July 2008

Commencement Date: 30 July 2008

## **Conditions of Consent**

Consent Granted: To discharge stormwater and treated wastewater from truck washing at a concrete batching plant into the Mangaone Stream in the Waiwhakaiho catchment

Expiry Date: 1 June 2026

Review Date(s): June 2014, June 2020

- Site Location: 67 Hurlstone Drive, Bell Block
- Grid Reference (NZTM) 1696910E-5677375N
- Catchment: Waiwhakaiho

Tributary: Mangaone

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

Page 1 of 3

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Doc# 3225056-v1

- 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 conditions within 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 maximum stormwater catchment area shall be no more than 5880 m<sup>2</sup>.
- 3. Any above ground hazardous substances storage areas shall be bunded with drainage to the wastewater treatment system, and not directly to the stormwater catchment.
- 4. Concentrations of the following components shall not be exceeded in the discharge:

Component	Concentration
suspended solids	100 g/m <sup>3</sup>
oil and grease	15 g/m³

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

- 5. After allowing for reasonable mixing, within a mixing zone extending 50 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 Mangaone 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.

- 6. After allowing for reasonable mixing, within a mixing zone extending 50 metres downstream of the discharge point, the discharge shall not, either by itself or in combination with other discharges, give rise to an increase in pH of greater than 0.5, or a pH outside the range of 6.0 to 8.0 within the receiving waters of the Mangaone Stream.
- 7. The consent holder shall maintain, and adhere to, a contingency plan detailing 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 spillage or discharge.
- 8. Within three months of the granting of this consent, the consent holder shall prepare and maintain an operation and management plan. This plan shall be adhered to at all times and shall, to the satisfaction of the Chief Executive, Taranaki Regional Council, document how the site is to be managed in order to minimise the contaminants that become entrained in the stormwater. The plan shall include but not necessarily be limited to:
  - a) the loading, unloading and storage of materials;
  - b) maintenance of conveyance systems;
  - c) general housekeeping; and
  - d) management of the wastewater treatment system.
- 9. The consent holder shall notify the Chief Executive, Taranaki Regional Council, prior to making any changes in the processes undertaken at the site, or the chemicals used or stored on site, which could alter the nature of the discharge. 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 worknotification@trc.govt.nz. Notification by fax or post is acceptable if the consent holder does not have access to email.
- 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:
  - a) during the month of June 2014 and/or June 2020; and/or
  - b) within 3 months of receiving a notification under special condition 9 above,

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.

Transferred at Stratford on 16 November 2023

For and on behalf of Taranaki Regional Council

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A D McLay Director - Resource Management

Name of Consent Holder:	KiwiRail Holdings Limited PO Box 593 Wellington 6140
Decision Date:	31 March 2017

Commencement Date: 31 March 2017

Consent Granted:	To discharge stormwater into the Waiwhakaiho River
Expiry Date:	1 June 2026
Review Date(s):	June 2020 and in accordance with special condition 8
Site Location:	Smart Road, New Plymouth
Grid Reference (NZTM)	1696090E-5677290N
Catchment:	Waiwhakaiho

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

#### **Special conditions**

- 1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent.
- 2. The stormwater discharged shall be from an area not exceeding 4.8 hectares.
- 3. Constituents in the discharge shall meet the standards shown in the following table:

Constituent	Standard
рН	Within the range 6.0 to 9.0
Suspended solids	Concentration not greater than 100 gm <sup>-3</sup>
Oil and grease	Concentration not greater than 15 gm <sup>-3</sup>
Ammoniacal nitrogen	Concentration not greater than 3 gm <sup>-3</sup>
Dissolved reactive phosphate	Concentration not greater than 1 gm <sup>-3</sup>

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

- 4. That after allowing for reasonable mixing, within a mixing zone extending 100 metres downstream of the discharge point, the discharge shall not, either by itself or in combination with other discharges, give rise to any of the following effects in the receiving waters:
  - 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.
- 5. That the consent holder shall maintain a contingency plan, to the satisfaction of the Chief Executive, Taranaki Regional Council, outlining measures and procedures to be undertaken to prevent spillage or accidental discharge of contaminants, and the procedures to be carried out should such a spillage occur.

- 6. The consent holder shall operate 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 is to be managed to minimise the contaminants that become entrained in the stormwater and shall include as minimum:
  - a) the loading and unloading of materials;
  - b) maintenance of leased property;
  - c) general housekeeping; and
  - d) management of the interceptor system.

Note: A Stormwater Management Plan template is available in the Environment section of the Taranaki Regional Council's web site <u>www.trc.govt.nz</u>.

- 7. 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 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 <u>consents@trc.govt.nz</u>.
- 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:
  - a) during the month of June 2020;
  - b) within 3 months of receiving a notification under special condition 7 above.

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 31 March 2017

For and on behalf of Taranaki Regional Council

A D McLay Director - Resource Management

New Zealand Railways Corporation
P O Box 593
WELLINGTON 6140

Consent Granted 31 July 2009 Date:

# **Conditions of Consent**

- Consent Granted: To discharge stormwater from the Smart Road Rail Terminal into an unnamed tributary of the Mangaone Stream, and into the Mangaone Stream in the Waiwhakaiho catchment at or about (NZTM) 1696529E-5676921N
- Expiry Date: 1 June 2026
- Review Date(s): June 2014, June 2020
- Site Location: Smart Road, New Plymouth

Legal Description: Pt Sec 144 & 145 Hua Dist, Pt Lot 1 DP 2210 & Pt Lot 2 DP 8654

Catchment: Waiwhakaiho

Tributary: Mangaone

- 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**

- 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 stormwater discharged shall be from a catchment area not exceeding 11.28ha.
- 3. By 30 September 2009, where goods are on site in excess of 3 days, any above ground hazardous substances storage areas shall be bunded with drainage to sumps, or discharged via a three stage interceptor and stop valve such that the flow can be isolated in the event of a spill.
- 4. Constituents of the discharge shall meet the standards shown in the following table.

<u>Constituent</u>	<u>Standard</u>
pH	Within the range 6.0 to 9.0
suspended solids	Concentration not greater than 100 gm <sup>-3</sup>
Oil and Grease	Concentration not greater than 15 gm <sup>-3</sup>

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.

- 5. After allowing for reasonable mixing, within a mixing zone extending to the Katere Road Bridge (NZTM 1696444E-5676696N) 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.

- 6. The consent holder shall maintain a contingency plan, which shall be reviewed at not more than 2 yearly intervals. The contingency plan shall be adhered to in the event of a spill or emergency and shall, to the satisfaction of the Chief Executive, Taranaki Regional Council, detail measures and procedures to be undertaken to prevent spillage or accidental discharge of contaminants not authorised by this consent and measures to avoid, remedy or mitigate the environmental effects of such a spillage or discharge.
- 7. By 30 September 2009, the consent holder shall prepare and maintain a stormwater management plan. This plan shall be adhered to at all times and shall, to the satisfaction of the Chief Executive, Taranaki Regional Council document how the site is to be managed in order to minimise the contaminants that become entrained in the stormwater. The plan shall include but not necessarily be limited to:
  - a) the loading and unloading of materials;
  - b) maintenance of conveyance systems;
  - c) general housekeeping; and
  - d) management of the interceptor system;

and shall be reviewed at not more than 2 yearly intervals.

- 8. This consent shall lapse on 30 September 2014, unless the consent is given effect to before the end of that period or the Taranaki Regional Council fixes a longer period pursuant to section 125(1)(b) of the Resource Management Act 1991.
- 9. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 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 31 July 2009

For and on behalf of Taranaki Regional Council

**Director-Resource Management** 

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

Consent Granted	10 June 2008
Date:	

Consent Granted:	To discharge stormwater from the Katere and Waiwhakaiho industrial areas into the Mangaone Stream via multiple outfalls between Egmont Road and the confluence with the Waiwhakaiho River at or about (NZTM) 1697233E-5677145N, 1697032E-5677145N, 1696882E-5677087N, 1696734E-5676990N, 1696545E-5677175N, 1696755E-5677622N, 1696757E-5677671N, 1696771E-5677957N, and
	1696777E-5677965N

- Expiry Date: 1 June 2026
- Review Date(s): June 2010, June 2014, June 2020
- Site Location: Katere Road, New Plymouth
- Legal Description: Various
- Catchment: Waiwhakaiho
- Tributary: Mangaone

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

### **Special conditions**

- 1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent.
- 2. The consent holder shall prevent, where possible, or mitigate any erosion occurring as a result of the exercise of this consent.
- 3. 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 Mangaone 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.

### Consent 1275-3

4. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2010 and/or 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 10 June 2008

For and on behalf of Taranaki Regional Council

**Director-Resource Management** 

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

- Decision Date: 16 March 2016
- Commencement Date: 16 March 2016

Consent Granted:	To discharge leachate from a former landfill site into groundwater, adjacent to the Waiwhakaiho River
Expiry Date:	1 June 2032
Review Date(s):	June 2020, June 2026
Site Location:	Devon Road, Constance Street/Vickers Road, New Plymouth
Grid Reference (NZTM)	1696236E-5677324N
Catchment:	Waiwhakaiho

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 not cause groundwater to breech the standards shown in the following table.

<u>Constituent</u>	<u>Standard</u>
Total Ammonia	Concentration not greater than 25 mg/L
Dissolved reactive phosphorus	Concentration not greater than 0.065 mg/L
рН	Within the range 6.5 to 8.5

- 2. 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 Waiwhakaiho downstream of the sampling site WKH000925:
  - 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;
  - f. a concentration of unionised ammonia greater than  $0.0025 \text{ g/m}^3$  –N.
- 3. The consent holder shall ensure that the three piezometers situated at the Bewley Road site are maintained for monitoring purposes (sites GND0548, GND0555, GND0556).
- 4. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2020 and/or June 2026, 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 March 2016

For and on behalf of Taranaki Regional Council

A D McLay **Director - Resource Management** 

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

Consent Granted	10 June 2008
Date:	

Consent Granted:	To discharge stormwater from the Waiwhakaiho industrial area into the Waiwhakaiho River via multiple outfalls between the State Highway 3 bridge and the confluence with the Mangaone Stream at or about (NZTM) 1695807E-5676977N, 1695902E-5677235N, 1696113E-5677288N, 1696233E-5677323N, 1696377E-5677616N, 1696472E-5677706N, 1696539E-5677767N, 1696573E-5677800N, 1696611E-5677837N, and 1696683E-5677904N
Expiry Date:	1 June 2026

- Review Date(s): June 2010, June 2014, June 2020
- Site Location: Rifle Range Road, New Plymouth
- Legal Description: Various
- Catchment: Waiwhakaiho

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

### **Special conditions**

- 1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent.
- 2. The consent holder shall prevent, where possible, or mitigate any erosion occurring as a result of the exercise of this consent.
- 3. After allowing for reasonable mixing, within a mixing zone extending 50 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 Waiwhakaiho River:
  - a) the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials;
  - b) any conspicuous change in the colour or visual clarity;
  - c) any emission of objectionable odour;
  - d) the rendering of fresh water unsuitable for consumption by farm animals;
  - e) any significant adverse effects on aquatic life.
## Consent 5163-2

4. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2010 and/or 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 10 June 2008

For and on behalf of Taranaki Regional Council

**Director-Resource Management** 

Name of Consent Holder:	Ravensdown Limited PO Box 16921 Hornby Christchurch 8441	
Decision Date (Review):	6 August 2020	
Commencement Date (Review):	6 August 2020	(Granted Date: 2 February 2018)

# **Conditions of Consent**

Consent Granted:	To discharge stormwater from a fertiliser storage site onto and into land and into the Mangaone Stream
Expiry Date:	1 June 2032
Review Date(s):	June 2026 and in accordance with special condition 9
Site Location:	Katere Road, Avon, New Plymouth
Grid Reference (NZTM)	1697034E-5677049N
Catchment:	Waiwhakaiho
Tributary:	Mangaone

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

Page 1 of 4

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

## **Special conditions**

- 1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent.
- 2. The stormwater discharged shall only be from the area shown on the plan attached as Appendix 1.
- 3. Constituents of any discharges to the Mangaone Stream or MacLeod's Drain that arise as a result of the exercise of this consent shall meet the standards shown in the following table.

Constituent	Standard
pH	Within the range 6.0 to 9.0
total recoverable oil and grease	Concentration not greater than 15 gm <sup>-3</sup>
CBOD (carbonaceous biochemical oxygen demand)	10 gm <sup>-3</sup>
dissolved reactive phosphorus	5 gm <sup>-3</sup>
suspended solids	100 gm <sup>-3</sup>
ammoniacal nitrogen	5 gm <sup>-3</sup>

- 4. From 1 April 2021 the consent holder shall ensure that there is always clear and safe allweather access to a point where the discharge can be sampled to check compliance with condition 3 above.
- 5. 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;
  - f) a rise in dissolved carbonaceous biochemical oxygen of greater than 2.0 g/m3; and
  - g) un-ionised ammonia exceeding 0.025 g/m3.
- 6. Within 3 months of the consent being granted the consent holder shall submit and regularly update a 'Contingency Plan' that details measures and procedures that will be undertaken to prevent, and to avoid environmental effects from, a spillage or any discharge of contaminants not authorised by this consent. The plan and any amended versions shall be provided to the Chief Executive of the Taranaki Regional Council.

Consent 10513-1.1

- 7. Within 3 months of the consent being granted 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 is to be managed to minimise the contaminants that become entrained in the stormwater and shall include as minimum:
  - a) the loading and unloading of materials;
  - b) general housekeeping; and
  - c) management of the interceptor systems and trade waste catchment areas.

Note: A Stormwater Management Plan template is available in the Environment section of the Taranaki Regional Council's web site <u>www.trc.govt.nz</u>.

- 8. 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 <u>consents@trc.govt.nz</u>.
- 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:
  - a) during the month of June 2020 and/or June 2026;
  - b) within 3 months of receiving a notification under special condition 8 above; and/or
  - c) for the purposes of reviewing the discharge standards, contaminant limits and sampling points once development on the site has been completed.

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 6 August 2020

For and on behalf of Taranaki Regional Council

A D McLay Director - Resource Management

# Consent 10513-1.1



Appendix 1: Stormwater discharged shall be from the area shown in yellow



Name of	Taranaki Sawmills Limited
Consent Holder:	PO Box 7145
	Fitzroy
	New Plymouth 4341

- Decision Date 12 March 2021
- Commencement Date 12 March 2021

# **Conditions of Consent**

- Consent Granted: To discharge stormwater from a timber treatment site into the Mangaone Stream
- Expiry Date: 1 June 2038
- Review Date(s): June 2026, June 2032
- Site Location: 47 & 53 Katere Road, Waiwhakaiho
- Grid Reference (NZTM) 1696875E-5677077N
- Catchment: Waiwhakaiho
- Tributary: Mangaone

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

Page 1 of 3

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

### **Special conditions**

- 1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent.
- 2. The exercise of this consent shall be undertaken generally in accordance with the documentation submitted in support of the application. In the case of any contradiction between the documentation submitted in support of this application and the conditions of this consent, the conditions of this consent shall prevail.
- 3. The maximum stormwater catchment area shall be no more than 2.3 Hectares.
- 4. Constituents of the discharge shall meet the standards shown in the following table.

<u>Constituent</u>	<u>Standard</u>
рН	Within the range 6.0 to 9.0
suspended solids	Concentration not greater than 100 gm <sup>-3</sup>
oil and grease	Concentration not greater than 15 gm <sup>-3</sup>
Arsenic	Concentration not greater than 0.24g/m <sup>3</sup>
Copper (dissolved)	Concentration not greater than 0.088 g/m <sup>3</sup>
Chromium	Concentration not greater than 0.4 g/m <sup>3</sup>
Tributyltin	Concentration not greater than 0.0046 g/m <sup>3</sup>
Zinc (dissolved)	Concentration not greater than 0.64 g/m <sup>3</sup>

These standards 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.

- 5. The consent holder shall ensure that there is always clear and safe all-weather access to a point where the discharge can be sampled to check compliance with condition 6 above.
- 6. After allowing for reasonable mixing, within a mixing zone extending 30 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 waters of the Mangaone 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.

- 7. After allowing for reasonable mixing within a mixing zone extending 30 metres downstream of the discharge point, the discharge shall not, either by itself or in combination with other discharges, give rise to a filtered carbonaceous 5 day biochemical oxygen demand of more than 2 g/m<sup>3</sup> an increase of greater than 0.5 pH increment, or a pH outside the range of 6.0 to 9.0 within the receiving waters of the Mangaone Stream.
- 8. The consent holder shall maintain and regularly review a 'Contingency Plan' that details measures and procedures that will be undertaken in the event of a spillage or any discharge of contaminants not authorised by this consent. The plan shall be approved by the Chief Executive, Taranaki Regional Council, acting in a certification capacity as being adequate to avoid, remedy or mitigate the environmental effects of such an event
- 9. The site shall be operated in accordance with a 'Management Plan'. The plan shall detail how the site is managed to minimise the contaminants that become entrained in the stormwater, and generally ensure that the conditions of this consent will be met. It shall include as minimum:
  - a) the loading and unloading of materials;
  - b) maintenance of conveyance systems;
  - c) general housekeeping; and
  - d) management of the stormwater system.

The Management Plan shall be made available to a Taranaki Regional Council Enforcement Officer upon request.

- 10. 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. Unless the Chief Executive advises that an alternative method is required this notice shall be served by completing and submitting the 'Notification of work' form on the Council's website (http://bit.ly/TRCWorkNotificationForm).
- 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 2026 and/or June 2032, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 12 March 2021

For and on behalf of Taranaki Regional Council

A D McLay

**Director - Resource Management** 

Name of	Technix Group Limited
Consent Holder:	Private Bag 2222
	New Plymouth 4342

- Decision Date: 24 October 2014
- Commencement Date: 24 October 2014

# **Conditions of Consent**

Consent Granted:	To discharge stormwater from an industrial site into the Waiwhakaiho River
Expiry Date:	01 June 2032
Review Date(s):	June 2020, June 2026 and in accordance with special condition 9
Site Location:	691 Devon Road, Bell Block
Legal Description:	Lot 2 DP 20360 (Discharge source & site)
Grid Reference (NZTM)	1696623E-5677733N
Catchment:	Waiwhakaiho

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

### **Special conditions**

- 1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent.
- 2. The stormwater discharged shall be from a catchment area not exceeding 2.2 ha.
- 3. After 31 December 2015 there shall be no discharge from the truckwash to the stormwater network.
- 4. Constituents of the discharge shall meet the standards shown in the following table.

<u>Constituent</u>	<u>Standard</u>
рН	Within the range 6.0 to 9.0
suspended solids	Concentration not greater than 100 gm <sup>-3</sup>
oil and grease	Concentration not greater than 15 gm <sup>-3</sup>
chloride	Concentration not greater than 50 gm <sup>-3</sup>

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.

- 5. After allowing for reasonable mixing, within a mixing zone extending 50 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.
- 6. The consent holder shall maintain and regularly update a 'Contingency Plan' that details measures and procedures that will be undertaken to prevent, and to avoid environmental effects from, a spillage or any discharge of contaminants not authorised by this consent. The plan shall be approved by the Chief Executive, Taranaki Regional Council, acting in a certification capacity.

- 7. Within three months of the granting of this consent, the site shall be operated in accordance with a 'Stormwater 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) identification of sources of contaminants,
  - b) methods that will practised to ensure contaminants entering stormwater is at a practical minimum,
  - c) the loading and unloading of materials;
  - d) maintenance of conveyance systems;
  - e) general housekeeping; and
  - f) management of the interceptor system.
- 8. 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 <u>consents@trc.govt.nz</u>.
- 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:
  - a) during the month of June 2020 and/or 2026 and/or
  - b) within 3 months of receiving a notification under special condition 8 above and/or
  - c) within 3 months of receiving the Stormwater Management Plan under special condition 7 above.

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

Signed at Stratford on 24 October 2014

For and on behalf of Taranaki Regional Council

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A D McLay Director - Resource Management



Name of	Urban Aspect Limited
Consent Holder:	

- Decision Date: 5 June 2015
- Commencement Date: 5 June 2015

# **Conditions of Consent**

Consent Granted: To discharge stormwater onto and into land and into the Mangaone Stream

- Expiry Date: 1 June 2032
- Review Date(s): June 2026 and in accordance with special condition 9

Site Location: 69 Katere Road, New Plymouth

- Grid Reference (NZTM) 1697103E 5677252N 1697061E – 5677209N 1697033E – 5677144N
- Catchment: Waiwhakaiho

Tributary: Mangaone

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

Page 1 of 3

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

### **Special conditions**

- 1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent.
- 2. The stormwater discharged shall be from an area not exceeding 1.77 Ha.
- 3. Constituents of the discharge shall meet the standards shown in the following table.

<u>Constituent</u>	<u>Standard</u>
рН	Within the range 6.0 to 9.0
suspended solids	Concentration not greater than 100 gm <sup>-3</sup>
oil and grease	Concentration not greater than 15 gm <sup>-3</sup>
carbonaceous biochemical oxygen demand	Concentration not greater than 15 gm <sup>-3</sup>

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

- 4. After allowing for reasonable mixing, within a mixing zone extending 30 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 Mangaone 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; and
  - f) an unionised ammonia concentration of greater the 0.025 g/m<sup>3</sup>-N.
- 5. The consent holder shall maintain and regularly update a 'Contingency Plan' that details measures and procedures that will be undertaken to prevent, and to avoid environmental effects from, a spillage or any discharge of contaminants not authorised by this consent. The plan shall be approved by the Chief Executive, Taranaki Regional Council, acting in a certification capacity.

- 6. The site shall be operated in accordance with an up to date '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 is to be managed to minimise the contaminants that become entrained in the stormwater and shall include as minimum:
  - a) the loading and unloading of materials;
  - b) general housekeeping;
  - c) management of the treatment systems; and
  - d) timeframes for any proposed improvements.

Note: A Stormwater Management Plan template is available in the Environment section of the Taranaki Regional Council's web site <u>www.trc.govt.nz</u>.

- 7. 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. 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.
- 8. This consent shall lapse on 30 June 2020 unless the consent is given effect to before the end of that period or the Taranaki Regional Council fixes a longer period pursuant to section 125(1)(b) of the Resource Management Act 1991.
- 9. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review:
  - a) during the month of June 2020 and/or June 2026
  - b) within 3 months of receiving a notification under special condition 7 above;

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.

Transferred at Stratford on 1 November 2022

For and on behalf of Taranaki Regional Council

Hymolup

A D McLay Director - Resource Management

Name of	Waste Management NZ Limited
Consent Holder:	PO Box 7128
	New Plymouth 4341

- Decision Date: 27 October 2017
- Commencement Date: 27 October 2017

# **Conditions of Consent**

Consent Granted:	To discharge stormwater from a waste depot into an
	unnamed tributary of the Mangaone Stream

- Expiry Date: 1 June 2032
- Review Date(s): June 2018, June 2019 and June 2020 and 3-yearly thereafter, and in accordance with special condition 9
- Site Location: 86 Katere Road, New Plymouth
- Grid Reference (NZTM) 1697274E-5677140N
- Catchment: Waiwhakaiho
- Tributary: Mangaone

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

### **Special conditions**

- 1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent.
- 2. From 15 January 2018:
  - a) no leachate overflow from the refuse storage area or any other part of the site shall enter the unnamed tributary of the Mangaone Stream; and
  - b) a sediment interceptor, such as a sump, shall be installed downstream of existing sump A1.
- 3. The stormwater discharged shall only be from the area shown on the plan attached as Appendix 1.
- 4. Constituents of the discharge sampled at WM4 (shown in the plan attached as Appendix 2 and at approximate grid reference 1697214E-5677143N) shall meet the standards shown in the following table.

<u>Constituent</u>	<u>Standard</u>
рН	Within the range 6.0 to 9.0
total recoverable oil and grease	Concentration not greater than 15 gm <sup>-3</sup>
CBOD (carbonaceous biochemical oxygen	20 gm-3
demand)	

- 5. 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;
  - f) unionised ammonia to exceed 0.025 gm<sup>-3</sup>; and
  - g) filtered carbonaceous biochemical oxygen demand to exceed 2.0.
- 6. Within 3 months of the consent being granted the consent holder shall submit and regularly update a 'Contingency Plan' that details measures and procedures that will be undertaken to prevent, and to avoid environmental effects from, a spillage or any discharge of contaminants not authorised by this consent. The plan and any amended versions shall be provided to the Chief Executive of the Taranaki Regional Council.

## Consent 10430-1.0

- 7. Within 3 months of the consent being granted 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 is to be managed to minimise the contaminants that become entrained in the stormwater and shall include as minimum:
  - a) the loading and unloading of materials;
  - b) general housekeeping; and
  - c) management of the interceptor systems and trade waste catchment areas.

Note: A Stormwater Management Plan template is available in the Environment section of the Taranaki Regional Council's web site <u>www.trc.govt.nz</u>.

- 8. 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 <u>consents@trc.govt.nz</u>.
- 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:
  - a) during the month of June 2018, 2019 and 2020 and 3-yearly thereafter;
  - b) within 3 months of receiving a notification under special condition 8 above; and/or
  - c) for the purposes of reviewing the discharge standards, contaminant limits and sampling points once development on the site has been completed.

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 October 2017

For and on behalf of Taranaki Regional Council

A D McLay Director - Resource Management

# Consent 10430-1.0



Appendix 1: Area of stormwater discharge shown in blue.





Appendix II

Categories used to evaluate environmental and administrative performance

# Categories used to evaluate environmental and administrative performance

Environmental performance is concerned with <u>actual or likely effects</u> 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 <u>and</u> 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;
- o 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.