

**Waitaha Catchment**  
Monitoring Programme  
Annual Report  
2021-2022

Technical Report 2022-15



Working with people | caring for Taranaki



Taranaki Regional Council  
Private Bag 713  
Stratford

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April 2023

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## Monitoring Programme

### Annual Report

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## Executive summary

This 2021-2022 annual compliance monitoring report is the 28<sup>th</sup> report by the Taranaki Regional Council (the Council) to be prepared for the monitoring programme in the Waitaha Stream catchment. Twelve industrial premises were monitored under this programme during the year under review. The monitoring reflects an on-going process of identifying and improving discharges into the catchment in a similar manner to the management of those in the neighbouring Mangati Stream catchment.

**During the monitoring period, most consent holders demonstrated an overall good level of environmental performance and a high level of administrative performance.**

A total of 17 consents, held by the 13 industries, were included in the monitoring programme during the 2021-2022 monitoring period. Of these, ten licence discharges to water, one licence a discharge to land, and six licence discharges to air. These consents include a total of 204 special conditions.

The Council's monitoring included 76 inspections, seven discharge samples and seven receiving water samples collected for physicochemical analysis. And a review of consent holder air quality monitoring data, odour surveys, ambient air quality analyses, ambient PM<sub>10</sub> monitoring, and deposition gauging.

During the year under review, inspections found that the sites were generally well managed, with mostly only transient non-compliances found at some sites, the majority of which were addressed in a timely manner. The persistent issue of non-compliant levels of suspended solids was again noted in the catchment with four instances of consent breaches, by three different consent holders, recorded during the monitoring period. Enforcement action was taken following all of these breaches. Consent holders continuing to investigate the source of suspended sediment in the catchment so they can implement appropriate mitigation measures. There was also one breach of an air quality consent condition which was also followed up with enforcement action.

In addition to the elevated levels of suspended sediment noted in some stormwater discharges, chemical monitoring of the stream found that although there were measurable changes in some parameters, most of these would have resulted in only minor transient effects at most. In terms of guidelines, there were a few low level exceedances of guidelines for pH, ammoniacal nitrogen, or biochemical oxygen demand. Zinc concentrations in four of the seven wet weather samples taken from the Waitaha Stream were found to be below the USEPA acute guideline for zinc, while five of the seven dissolved copper results were below the USEPA acute guidelines.

Overall, most consented discharges in the Waitaha catchment achieved a good level of environmental compliance. Where consented discharges required improvement, the Council has been working with consent holders to apply best practice. The Council, in co-operation with New Plymouth District Council (NPDC) as the consented reticulation owners, is also educating and engaging with non-consent holders in the catchment who may be unaware of their environmental and regulatory obligations.

During the year, AICA (NZ) Ltd demonstrated a **high** level of environmental and administrative performance and compliance with their resource consents as defined in defined in Appendix II

During the year, C&O Concrete Products Ltd demonstrated a **high** level of environmental performance and administrative performance and compliance as defined in Appendix II.

During the year, Energyworks Ltd demonstrated a **high** level of environmental performance and administrative performance and compliance as defined in Appendix II.

During the year, Greymouth Facilities Ltd demonstrated a level of environmental performance that **required improvement** and a **high** level of administrative performance and compliance as defined in Appendix II. GFL need to investigate and mitigate the source of suspended solids in the stormwater discharge on site.

During the year, Intergroup Ltd demonstrated a level of environmental performance that **required improvement** and a **high** level of administrative performance and compliance with their resource consent as defined in Appendix II.

During the year, Meredith Metals Ltd demonstrated a **high** level of environmental and administrative performance and compliance as defined in Appendix II.

During the year, NPDC demonstrated a **high** level of environmental performance and administrative performance and compliance as defined in Appendix II.

During the year, Pounamu Oil Services Ltd demonstrated a **high** level of environmental and administrative performance and compliance with their resource consent as defined in Appendix II.

During the year Symons Property Development demonstrated a level of environmental performance that **required improvement** and a **high** level of administrative performance and compliance with their resource consent as defined in Appendix II.

During the period under review Taranaki Sawmill demonstrated a **high** level of environmental and administrative performance and compliance as defined in Appendix II.

During the year, SRG Global Asset Services (Taranaki) Ltd demonstrated a **high** level of environmental performance and administrative performance and compliance with their resource consent as defined in Appendix II.

During the year, Woodward's 2008 Ltd demonstrated a **high** level of environmental performance and administrative performance and compliance as defined in Appendix II.

During the year, Zeland Ltd demonstrated an overall **good** level of environmental performance and a **high** level of administrative performance and compliance as defined in Appendix II.

For reference, in the 2021-2022 year, consent holders were found to achieve a high level of environmental performance and compliance for 88% of the consents monitored through the Taranaki tailored monitoring programmes, while for another 10% of the consents, a good level of environmental performance and compliance was achieved.

In terms of overall environmental and compliance performance by the consent holders over the last several years, this report shows that the consent holders' performance remains at a good level for the year under review.

This report includes recommendations for the 2022-2023 year, including a recommendation relating to an optional review of consents 0609-3, 4056-3, 9606-2, and 9868-1 in June 2023.

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# 1 Introduction

## 1.1 Compliance monitoring programme reports and the Resource Management Act 1991

### 1.1.1 Introduction

This report is for the period July 2021 to June 2022 by the Taranaki Regional Council (the Council) on the monitoring programme associated with 17 resource consents held by 13 consent holders in the Waitaha Catchment.

This report includes the results and findings of the monitoring programme implemented by the Council in respect of these consents, which relate to discharges to water and emissions to air within the Waitaha 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 use of water, land and air by these consent holders, and is the 28<sup>th</sup> combined annual report by the Council for this catchment.

### 1.1.2 Structure of this report

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

- consent compliance monitoring under the RMA and the Council's obligations;
- the Council's approach to monitoring sites through annual programmes;
- the resource consents held by the companies in the Waitaha catchment;
- the nature of the monitoring programme in place for the period under review; and
- a description of the activities and operations conducted at the various sites in the catchment.

**Sections 2-14** separately detail each company's onsite activities and performance.

In each **subsection 1** (e.g. section 2.1) there is a general description of the industrial activity and associated discharges, a photograph or map showing the location of the activity, and an outline of the matters covered by the company's permit/s.

**Subsections 2 and 3** present the monitoring results of the company's activities during the period under review, including scientific and technical data, and any information on the Council's Register of Incidents.

**Section 15** discusses the results of the monitoring of the Waitaha Stream, 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 2022-2023 monitoring year.

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

### 1.1.3 The Resource Management Act 1991 and monitoring

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

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

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

### 1.1.4 Evaluation of environmental and administrative 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 2021-2022 year, consent holders were found to achieve a high level of environmental performance and compliance for 88% of the consents monitored through the Taranaki tailored monitoring programmes, while for another 10% of the consents, a good level of environmental performance and compliance was achieved. <sup>1</sup>

## 1.2 Resource consents

The resource consents covered by the Waitaha Catchment Monitoring Programme are shown in Table 1 and their locations are shown in Figure 1. A total of 17 consents were included in the monitoring programme during the 2021-2022 monitoring period. Of these, 10 licence discharges to water, one licence a discharge to land, and six licence discharges to air. These consents include a total of 205 special conditions. There are a small number of other consented discharges in the catchment, such as agricultural discharges, which are not covered directly by this monitoring programme.

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<sup>1</sup> The Council has used these compliance grading criteria for more than 18 years. They align closely with the 4 compliance grades in the MfE Best Practice Guidelines for Compliance, Monitoring and Enforcement, 2018

Outlines of the companies' activities and the special conditions on their consents are presented in Sections 2- 14 of this report, and copies of the full consents are given in numerical order in Appendix I.

Most stormwater discharge consents have the most recent standardised special conditions that;

- require the consent holder to adopt best practice;
- limit the area from which stormwater can be discharged;
- require the use of a stormwater treatment 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 maintain a spill contingency plan;
- require that the consent holder maintain and adhere to a management plan;
- require the consent holder to notify Council prior to making any changes to the site or site processes;
- set a lapse date (where applicable); and
- set dates for optional review.

Table 1 Resource consents held in the Waitaha Catchment

Consent Holder	Consent No	Type	Description	Conditions	Granted	Expiry Date	Next Review Date
AICA (NZ) Ltd	2367-3.2	discharge stormwater to land/water	To discharge stormwater from a chemical manufacturing complex to land via irrigation and into a wetland at the headwaters of the Waitaha Stream	14	20 Sep 2017	01 Jun 2032	June 2026
	4021-3	discharge to air	To discharge emissions into the air from the manufacture of formaldehyde solution and urea formaldehyde resin, together with emissions from associated activities at the plant premises	12	26 May 2015	01 Jun 2032	June 2026
C&O Concrete Products Ltd	4777-2	discharge to land/water	To discharge stormwater from a concrete products manufacturing premises into the Waitaha Stream	9	09 Dec 2014	01 Jun 2032	June 2026
Energyworks Ltd	9606-2	discharge to air	To discharge emissions into the air associated with abrasive blasting operations, spray painting and associated activities at a permanent site at Connett Road East, Bell Block and from mobile operations throughout the Taranaki region, including parts of the coastal marine area	20	03 Sep 2020	01 Jun 2038	June 2023
	9962-1	discharge stormwater to land/water	To discharge stormwater via the New Plymouth District Council reticulated stormwater system into an unnamed tributary of the Waitaha Stream	8	11 Nov 2014	01 Jun 2032	June 2026

Consent Holder	Consent No	Type	Description	Conditions	Granted	Expiry Date	Next Review Date
Greymouth Facilities Ltd	9868-1.1	discharge stormwater to land/water	To discharge untreated stormwater from a yard used for storage and maintenance of hydrocarbon exploration drilling equipment directly onto and into land, and to discharge treated stormwater into the Waitaha Stream via the New Plymouth District Council reticulated stormwater system, from an interceptor	15	04 Jun 2014	01 Jun 2032	June 2023
Intergroup Ltd	4776-2	discharge stormwater to land/water	To discharge treated stormwater from a liquid wastes processing and chemical consolidation facility onto and into land and into the Waitaha Stream via the New Plymouth District Council reticulated stormwater system	9	31 Mar 2016	01 Jun 2032	June 2026
Meredith Scrap Metals Ltd	9911-1	discharge contaminants to land	To discharge contaminants onto and into land associated with scrap metal storage and processing	9	04 Jun 2014	01 Jun 2032	June 2026
	9912-1	discharge stormwater to land/water	To discharge stormwater from scrap metal storage and processing into the Waitaha Stream and into an unnamed tributary of the Mangaoraka Stream	10	19 May 2021	01 Jun 2032	June 2026
New Plymouth District Council	0609-3	discharge stormwater to land/water	To discharge stormwater from industrial land in the Waitaha catchment via multiple outfalls between De Havilland Drive and State Highway 3 into the Waitaha Stream and various unnamed tributaries of the Waitaha Stream	7	22 Mar 2017	01 Jun 2032	June 2023
Pouamu Oilfield Services Ltd	4775-2	discharge stormwater to land/water	To discharge treated and untreated stormwater from an oilfield engineering services premises onto land and into an unnamed tributary of the Waitaha Stream and into the Waitaha Stream	9	11 Jul 2016	01 Jun 2032	June 2026

Consent Holder	Consent No	Type	Description	Conditions	Granted	Expiry Date	Next Review Date
SRG Global Asset Services (Taranaki) Ltd (formerly TBS Coatings Ltd)	4056-3.0	discharge to air	To discharge emissions into the air from abrasive blasting operations at a permanent site at Corbett Road, Bell Block, and from mobile operations at various locations throughout the Taranaki region, excluding the Coastal Marine Area	18	11 Dec 2020	01 Jun 2038	June 2023
Symons Property Developments Ltd	7805-1	discharge stormwater to land/water	To discharge stormwater from a truck depot and pipe cleaning facility into the Waitaha Stream	13	11 Jul 2016	01 Jun 2026	-
Taranaki Sawmills Ltd	2333-4.3	discharge stormwater to land/water	To discharge stormwater from a sawmill site into the Waitaha Stream	9	06 Aug 2020	01 Jun 2032	June 2026
	4096-2	discharge to air	To discharge emissions into the air from sawmilling and untreated timber processing and associated activities including the combustion of wood and/or coal within boilers and wastes in an open firepit	21	27 Jan 2004	01 Jun 2032	June 2026
Woodwards 2008 Ltd	7881-1	discharge to air	To discharge emissions into air from the combustion of untreated timber wastes	9	17 Aug 2011	01 Jun 2026	-
Zelam Ltd	4059-5	discharge to air	To discharge emissions into the air from industrial agri-chemical formulation processes and associated processes	12	13 Feb 2008	01 Jun 2026	-

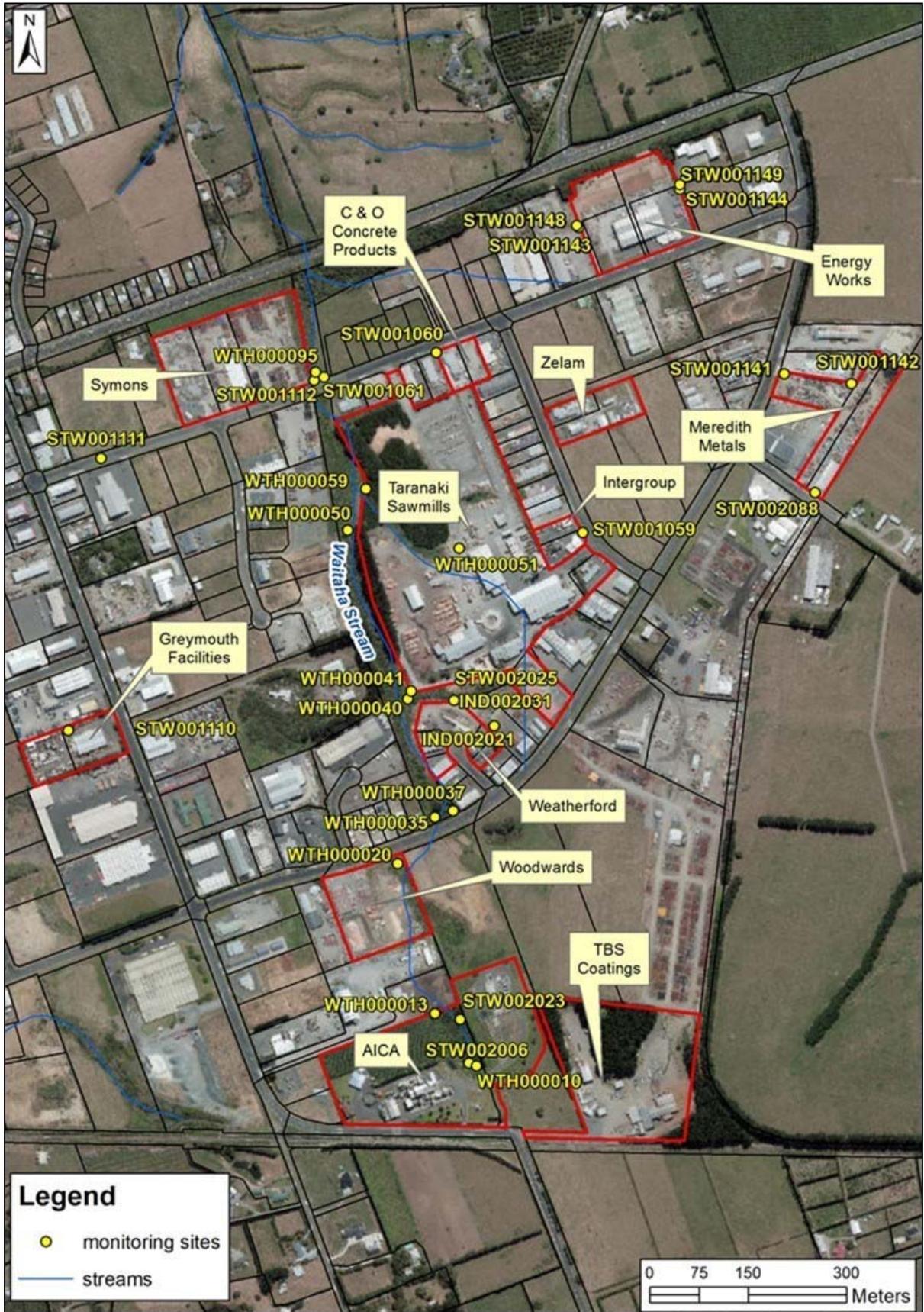


Figure 1 Consent holder site locations and associated sampling sites

## 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 Waitaha catchment consisted of six 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 officers undertook 76 routine site inspections of the consent holders' sites. With regard to consents for discharges to water, the main points of interest were plant processes with potential or actual discharges to receiving watercourses, including contaminated stormwater and process wastewaters. During inspections at sites with air discharge consents, ambient monitoring of suspended particulate and other emissions were undertaken as appropriate.

### 1.3.4 Discharge sampling

The Council took seven stormwater samples either via integrated wet weather runs or individually during wet weather inspections. Each sample was analysed for the expected contaminants and other physical characteristics of the discharges from each site. This sampling round was undertaken outside of the monitoring period, on 25 July 2022, as a 'catch up' due to the lack of a suitable earlier sampling date.

### 1.3.5 Receiving water sampling

The Council took seven receiving water samples during one integrated wet weather survey. Each sampling site is located to serve as either an upstream control or downstream impact assessment site for any given discharge.

### 1.3.6 Air monitoring

Council undertook one dust deposition survey at SRG Global during the monitoring period under review. The single 48-hour suspended particulate survey at Taranaki Sawmills Ltd was not able to be completed during this monitoring period. Handheld DustTrak and Gastec devices were also used at various sites during inspections, to monitor dust and gas emissions respectively.

### 1.3.7 Provision of company data

The consents held by AICA (NZ) Ltd require the collection of data in regards to stormwater quality and volumes and also require the provision of stack testing reports. A report on new air emissions treatment technology is required annually.

The air discharge consent held by Zelum Ltd requires the consent holder to measure the pH and amine content of the air scrubber liquor and provide the results to Council on an annual basis.

## 2 AICA (NZ) Ltd

### 2.1 Site description

AICA (NZ) Ltd (AICA) manufactures synthetic resins for the production of wood products at their plant situated above a wetland area at the headwaters of the Waitaha Stream (Photo 1).



Photo 1 View of AICA (NZ) site

There have been a number of changes at the site over the years in order to meet market demands. There are two processing areas on site, Plant 1 predominantly for formaldehyde based products, and Plant 2 which was primarily for phenol based products. In early 2009, due to the economic downturn it was decided that Plant 2 would be decommissioned and phenol production was moved to Nelson.

In 1999 a two tonne mixing vessel was installed at Plant 1 to take advantage of an increase in wood glue sales. This was piped up to the existing utilities and scrubbers.

AICA holds two consents in relation to the site; **2367-3** allows the discharge of stormwater from a chemical manufacturing complex to land via irrigation and into a wetland at the headwaters of the Waitaha Stream, while **4021-3** allows the discharge of emissions into the air from the manufacture of formaldehyde solution and urea formaldehyde resin, together with emissions from associated activities at the plant premises.

### 2.2 Water

The site has an enclosed stormwater system which directs all road drain runoff to two holding ponds that are lined with butyl rubber. These ponds (pond 1 and pond 2) are 300 m<sup>3</sup> and 100 m<sup>3</sup> respectively. Analysis of the stormwater is carried out by AICA prior to discharge. Should the stormwater be outside the limits given in the

consent, it is discharged via irrigation to the paddock to north of the plant. Should the discharge exceed the consent limits for irrigation, it is either diverted to trade waste or held for dilution.

The car park drains directly to the receiving waters of the Waitaha Stream. Roof water from the decommissioned phenolic resins plant (Plant 2) drains to the stormpond.

Areas likely to be contaminated, such as bunds around storage tanks and loading facilities, are directed to the NPDC sewer system.

## 2.2.1 Results

### 2.2.1.1 Inspections

Four routine inspections were conducted at the site during the monitoring period to assess compliance with resource consent conditions. These inspections were conducted on 29 September 2021, 29 November 2021, 24 May 2022 and 30 June 2022.

#### 29 September 2021

No urea tracking was observed from the urea shed and there were no signs of any leakage from any of the IBCs. The stormwater system had a mostly clear appearance. The pond was empty. There was bubbling in the grate next to the trade waste bunding and pH testing found the water had pH of 7.7, which is normal. However, the consent holder was advised to check the bubbling isn't occurring regularly and that it is not affecting the pond system. Some IBCs, containing low levels of flushings and resin harder, were observed in an un-bunded area next to the WSA. Staff were advised to remove these IBCs to a bunded area where there is minimal chance for them to become damaged and leak. The site was free of any noticeable odour. Formaldehyde testing at the boundary did not detect the presence of formaldehyde in the air.

#### 29 November 2021

Inspection of the discharge system found no evidence of recent discharge to land or the tributary. Inspection of the foaming drain, identified in a previous inspection, found the drain was significantly foamier. Further discussions held on site determined that the stormwater had an ammonia reading of 80 ppm and so could not be discharged to trade waste or ponds. Stormwater was being reticulated from the trade waste area to prevent overflow and this was causing aeration of ammonia and other organics and was responsible for the foaming. An air inspection found no readings for either phenol or formaldehyde around the boundary of property. No noticeable odour was detected anywhere around the site.

#### 24 May 2022

A small amount of urea had been tracked out of the urea shed, approximately three metres beyond the grate, the consent holder was advised to clean this up. The pond was discharging as per the notification received prior to the inspection. The discharge was sighted down the river bank and appeared clear with no foams, sheens or odour noted. No dust or odours were detected around the site.

#### 30 June 2022

It was noted that a small amount of urea had been tracked out of the shed and a number of 44 gallon drums (between site one and two) had blown over. These issues were discussed with staff during the inspection and the consent holder was advised to clean up urea tracking (as per prior inspection in May 2022) and appropriately dispose of empty drums. The pond was at a low level and was not discharging. No odour or dust were noted on site.

### 2.2.1.2 Results of discharge monitoring

There was no stormwater discharge from either Pond 1 (STW002006) or Pond 2 (STW002023) during the water quality survey conducted on 25 July 2022. Therefore, no samples were collected from the ponds during the period under review.

### 2.2.1.3 Results of receiving environment monitoring

Receiving water samples were collected from one site in the Waitaha Stream on 25 July 2022, and the results are shown in Table 2. The irrigation system was not observed in operation during the monitoring period.

Table 2 Receiving water sampling results, site WTH000013 25 July 2022\*

Parameter	Units	WTH000013	Consent limits
pH	pH	6.6	6-9
Temperature	°C	14.0	-
Conductivity	mS/m	13.8	-
Total Phenols	g/m <sup>3</sup>	< 0.02	0.6
Total N	g/m <sup>3</sup>	2.7	-
NH <sub>3</sub>	g/m <sup>3</sup>	< 0.00001	0.025
NH <sub>4</sub>	g/m <sup>3</sup>	0.005	-
NNN	g/m <sup>3</sup>	1.61	-
TKN	g/m <sup>3</sup>	1.08	-
Urea	g/m <sup>3</sup>	< 0.05	-

\* note: the sample collected on 25 July 2022 was a 'catch up' sample

The results were within consent limits and suggest that there were no measurable effects on receiving waters as a result of discharges from the AICA site. While results were within consent limits, concentrations of total nitrogen (TN), total oxidised nitrogen (NNN) and total Kjeldahl nitrogen (TKN) were elevated at levels which may encourage the growth of nuisance aquatic plants.

## 2.2.2 Provision of company data

### 2.2.2.1 Results of self-monitoring

Consent conditions require that AICA notify Council prior to discharge and provide sampling results as part of that notification. During the period under review the Council received and reviewed these results and found that they complied with the consented contaminant limits and notification requirements.

The self-monitoring stormwater data for AICA Pond 1 (Table 3) and Pond 2 (Table 3) are summarised below.

Table 3 AICA Pond 1 self-monitoring sampling results from July 2021 to June 2022

Discharge Type		To Land			To Water	
Number of samples		0			1	
Parameter	Units	Min	Max	Consent Limit	Result	Consent Limit
Temp	°C			-	13.2	-
pH (6-9)	pH			6-9	8.2	6-9
Conductivity	mS/m @ 25°C			-	317	-

Discharge Type		To Land			To Water	
Number of samples		0			1	
Parameter	Units	Min	Max	Consent Limit	Result	Consent Limit
Ammonia	g/m <sup>3</sup>			50	4.0	10
Unionised Ammonia	g/m <sup>3</sup>			-	0.18	-
Formaldehyde	g/m <sup>3</sup>			2	0	2
Phenol	g/m <sup>3</sup>			1	0	1

Table 4 AICA Pond 2 self-monitoring sampling results from July 2021 to June 2022

Discharge Type		To Water		
Number of samples		4		
Parameter	Units	Min	Max	Consent Limit
Temp	°C	13.6	17.5	-
pH (6-9)	pH	7.2	7.9	6-9
Conductivity	mS/m @ 25°C	51.4	290.0	-
Ammonia	g/m <sup>3</sup>	0.2	5.0	10
Unionised Ammonia	g/m <sup>3</sup>	0.0023	0.1000	-
Formaldehyde	g/m <sup>3</sup>	0.0	0.0	2
Phenol	g/m <sup>3</sup>	0.0	0.0	1

### 2.2.2.2 Discharge flow recording

AICA provided telemetered flow data for discharges from the storage ponds. This is used in conjunction with pre-release chemical analysis and downstream flow monitoring to provide further data on expected mixing and assimilation rates in the Waitaha Stream. A hydrograph of data collected for both discharges via irrigation to land (paddock), and to the Waitaha Stream is shown in Figure 2. Currently, AICA only discharge stormwater to water (as marked in black in the hydrograph) as issues with the paddock irrigation system have prevented the discharge of stormwater to land.

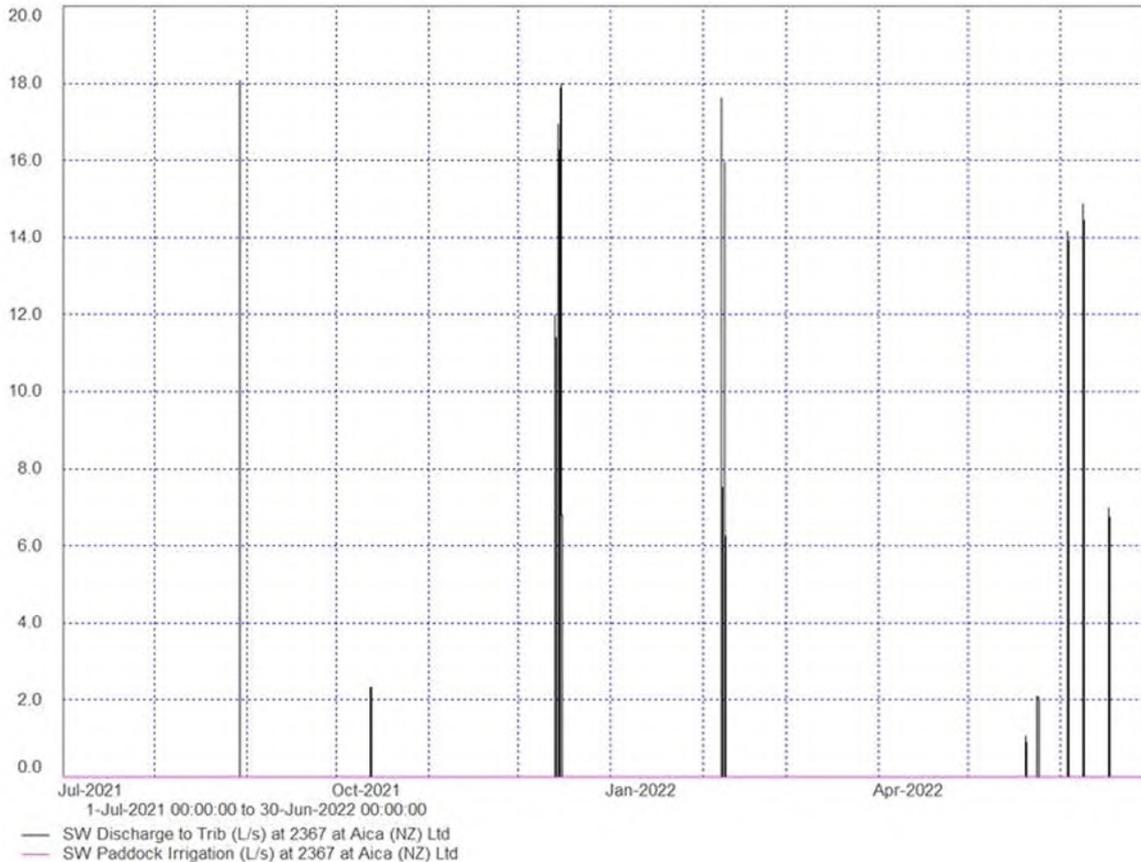


Figure 2 Hydrograph of AICA discharges for 2021-2022 year

## 2.3 Air

The primary source of emissions to the atmosphere is from the 22 m high formaldehyde absorption tower. The emissions contain formaldehyde, resorcinol, and other gases (including water vapour) from a gas-fired boiler flue, and some steam from the plant's cooling tower, together with minor emissions from storage tanks and the laboratory fume cupboard.

Formaldehyde solution is produced at the plant by the catalytic oxidation and dehydrogenation of methanol in a continuous process. This is then used in the production of urea-formaldehyde and melamine-urea-formaldehyde resins. There are also traces of formaldehyde, methanol and various reaction by-products.

The World Health Organisation notes that there is variability in human formaldehyde responses, with significant increases in signs of irritation occurring at levels above  $0.1 \text{ mg/m}^3$  and a progression of symptoms occurring above  $1.2 \text{ mg/m}^3$ . No lung function alterations were noted in healthy non-smokers and asthmatics exposed to formaldehyde levels up to  $3.7 \text{ mg/m}^3$ .

A formaldehyde limit of  $100 \text{ }\mu\text{g/m}^3$  ( $0.1 \text{ mg/m}^3$ ) is given in the 2002 Ministry for the Environment (MfE) National Ambient Air Quality Guidelines. It should be noted that the primary consideration by the MfE in setting this guideline, has been to ensure that ambient (outdoor) air can be used to dilute indoor concentrations of formaldehyde. This limit protects against tissue irritation of the eyes, nose and throat.

## 2.3.1 Results

### 2.3.1.1 Inspections

The site was visited on four occasions during the period under review. Inspections assessed the compliance of both air and water discharges, and are reported in Section 2.2.1.1.

### 2.3.1.2 Results of receiving environment monitoring

Dust and gas emissions monitoring was carried out during each inspection visit. All readings were within allowable limits as per Section 2.2.1.1.

## 2.3.2 Provision of company data

### 2.3.2.1 Emissions testing

Special conditions 3, 4, and 5 of consent 4021-3 relate to the standard to which formaldehyde emissions from the plant site must be treated, and outline the frequency and conditions under which formaldehyde emissions testing must be performed to confirm compliance. The timing of the testing, and reporting of the results to Council are also specified.

Testing must be undertaken by a party independent from AICA and as specified in USEPA Method 0011, which is an isokinetic method ensuring a fully representative sample is collected. Acidified dinitrophenyl hydrazine (DNPH) is used to trap the formaldehyde present in the sample. This testing must be undertaken before 1 June each year, comprise not less than three samples taken under production conditions that give rise to maximum emissions, and the results (including all raw data) are to be reported to Council within 20 working days of the testing.

AICA undertook stack testing on 15 September 2022, following unexpected delays due to poor weather and Covid supply issues. The stack testing report found the emissions to be compliant with consent conditions.

Further to emissions testing in July 2022, the copper mesh that holds the silver catalyst in the formalin plant was upgraded. The silver catalyst was laid in five different layers, which differs from the normal three layers. Both of these changes align with AICA's standards for good practice.

### 2.3.2.2 Emission technology report

Condition 11 of consent 4021-3 requires that the consent holder provide an annual report in the month of June reviewing the technology available for reduction of emissions. A report covering the 2021-2022 period was received.

## 2.4 Investigations, interventions, and incidents

In the 2021-2022 period, the Council was not required to undertake significant additional investigations and interventions, or record incidents, in association with AICA's conditions in resource consents or provisions in Regional Plans.

## 2.5 Evaluation of performance

A tabular summary of AICA's compliance record for the year under review is set out in Table 5 and Table 6.

Table 5 Summary of performance for AICA consent 2367-3

<b>Purpose: To discharge stormwater from a chemical manufacturing complex to land via irrigation and into a wetland at the headwaters of the Waitaha Stream</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Adopt best practice	Inspection/liaison with consent holder	Yes
2. Limit on catchment size	Inspection	Yes
3. Installation of discharge flow meters and data logger	Inspection	Yes
4. Analysis of stormwater prior to discharge	Review of data provided	Yes
5. Limits of stormwater discharge constituents	Sampling/review of data	Yes
6. Notification prior to discharge	Notification received	Yes
7. Limits of other stormwater discharge constituents	Inspection	Yes
8. Limits on effects in receiving water	Inspection/sampling	Yes
9. Limits on effects from land irrigation	Inspection/sampling	N/A – irrigation not in use during period under review.
10. Provision of data	Review of data	Yes
11. Provision of a contingency plan	Review of plan	Yes
12. Provision of management plan	Review of plan	Yes
13. Notifications of changes in site activity	No changes this period	N/A
14. Review of consent	Next optional review in June 2026	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>High</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

N/A = not applicable or not assessed

Table 6 Summary of performance for AICA consent 4021-3

<b>Purpose: To discharge emissions into the air from the manufacture of formaldehyde solution and urea formaldehyde resin, together with emissions from associated activities at the plant premises</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Adopt best practice	Site inspection	Yes

<b>Purpose: To discharge emissions into the air from the manufacture of formaldehyde solution and urea formaldehyde resin, together with emissions from associated activities at the plant premises</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
2. No objectionable effects beyond boundary	Inspection	Yes
3. 1.0 kg/hr formaldehyde limit on point source emissions	Stack testing	Yes
4. Conduct emission stack testing	Stack testing report received	Yes
5. Use approved method for stack testing	Stack testing report received	Yes
6. 0.1 mg/m <sup>3</sup> ambient formaldehyde limit at boundary	Gastec sampling during inspection	Yes
7. 0.63 mg/m <sup>3</sup> ambient phenol limit at boundary	Gastec sampling during inspection	Yes
8. 1.5 mg/m <sup>3</sup> ambient resorcinol limit at boundary	Gastec sampling during inspection	Yes
9. Minimisation of emissions through control of processes	Discussion and liaison with consent holder	Yes
10. Consultation before alterations to plant or processes	Discussion and liaison with consent holder	Yes
11. Formulation of a written report	Report received	Yes
12. Optional review provision re environmental effects	Next optional review in June 2026	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>High</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

N/A = not applicable or not assessed

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

## 3 C&O Concrete Products Ltd

### 3.1 Site description

C&O Concrete Products Ltd (C&O Concrete) manufactures concrete products from their site located on Connett Road East, Bell Block. The site is comprised of 1,926 m<sup>2</sup> of industrial land dominated by a central building and includes outdoor construction and storage areas (Photo 2).



Photo 2 C & O Concrete site

The discharge from C&O Concrete is expected to potentially contain elevated suspended solids, high pH and alkalinity. The site discharges to the New Plymouth District Council (NPDC) stormwater system where it mixes with stormwater from roads and other developed sites before discharging to the Waitaha Stream.

C&O Concrete holds consent **4777-2**, to discharge stormwater from a concrete products manufacturing premises into the Waitaha Stream.

## 3.2 Results

### 3.2.1 Inspections

Two routine inspections were conducted at the site during the monitoring period to assess compliance with resource consent conditions. These inspections were conducted on 23 July 2021, and 24 May 2022.

#### 23 July 2021

The stormwater discharge was clear at the time of inspection, with the drain due to be cleaned out the following week. The stone baskets appeared to be functioning well. There was no evidence of any spills or sheens on site and unauthorized burning occurring. There were no discharges of untreated stormwater or dust occurring. The site was compliant at the time of inspection.

23 May 2022

Light rain had occurred in the days prior to inspection. A visual inspection of the drains found no sheens or foam, though the water sitting in the drain did appear slightly grey in colour. Potentially, the drain filters would screen the light layer of dust out before it enters the network. It was noted that this may need to be followed up by the consent holder. There was no observed discharge of dust off-site.

### 3.2.2 Results of discharge monitoring

The requirements for the discharge are that the suspended solids concentration must not exceed 100 g/m<sup>3</sup> and the oil and grease concentration must not exceed 15 g/m<sup>3</sup>. The pH must be between 6 and 9.

An attempt to sample the discharge from the C&O Concrete site occurred on one occasion during the period under review. However, there was no stormwater discharge at the time and no sample could be collected.

## 3.3 Investigations, interventions, and incidents

In the 2021-2022 period, the Council was not required to undertake significant additional investigations and interventions, or record incidents, in association with C&O Concrete's conditions in resource consents or provisions in Regional Plans.

## 3.4 Evaluation of performance

A tabular summary of the C&O Concrete's compliance record for the year under review is set out in Table 7.

Table 7 Summary of performance for C&O Concrete Ltd consent 4777-2

<b>Purpose: To discharge stormwater from a concrete products manufacturing premises into the Waitaha Stream</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Adopt best practice	Observation at inspection	Yes
2. Limits stormwater catchment to 0.415 ha	Observation at inspection	Yes
3. Stormwater to be directed to treatment system	Observation at inspection	Yes
4. Contaminants in discharge not to exceed certain limits	Sampling	Yes
5. Discharge cannot cause specified adverse effects beyond mixing zone	Observation at inspection and sampling	Yes
6. Maintenance of a contingency plan	Contingency plan received	Yes
7. Maintenance of a management plan	Management plan received	Yes
8. Notification of changes at site	No notification received or changes noted	Yes
9. Optional review provision re environmental effects	Next optional review in June 2026	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>High</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

During the year, C&O Concrete Products Ltd demonstrated a high level of environmental and administrative performance with the resource consent as defined in Appendix II.

## 4 Energyworks Ltd

### 4.1 Site description

Energyworks Ltd (Energyworks) operates a blasting and painting facility on Connett Road Bell Block. Blasting occurs within a fully enclosed dedicated blast chamber within the main building. The blasting medium is mainly steel grit, with the use of blasting garnet as a secondary option. Emissions from the blast shed are managed internally via a media reclaimer and recycling system and emissions from the spray painting will be from vents on the downstream side of the purpose built filters. Two outdoor wash pads are used to wash blasted parts and these are directed to the NPDC sewer (Photo 3).



Photo 3 Stockpiled material to be blasted on Energyworks site, March 2020

Stormwater from the site discharges at points which flow into the Waitaha catchment via the NPDC reticulation system.

Energyworks hold two consents in relation to activities at the site. Consent **9606-1** allows the discharge emissions into the air associated with abrasive blasting operations, spray painting and associated activities at a permanent site at Connett Road East, Bell Block and from mobile operations throughout the Taranaki region, while **9962-1** covers the discharge of stormwater via the NPDC reticulated stormwater system into an unnamed tributary of the Waitaha Stream.

## 4.2 Results

### 4.2.1 Inspections

Two routine inspections were conducted at the site during the monitoring period to assess compliance with resource consent conditions. These inspections were conducted on 2 August 2021, and 24 May 2022.

#### 2 August 2021

There was no observed discharge from the site into the stormwater network. The stacks did not appear to be in operation at the time inspection and no objectionable odours were detected offsite and. A few issues were noted at the time of inspection that need to be addressed:

- Small piles of rust and steel fines were observed on the eastern side of the site. These need to be cleaned up immediately on discharge to ensure these materials do not enter the stormwater network;
- Plastic bags, which are used on site, were creating a litter problem around the grates to the stormwater discharge on the northern boundary. Plastic litter needs to be disposed of appropriately (there are now soft plastic litter receptacles at most Countdown supermarkets in New Plymouth) to ensure no plastics are entering the system; and,
- A number of unmarked IBCs, filled with an unidentified hydrocarbon, had been placed in direct sun next to a stormwater grate on the western boundary. The integrity of the IBCs could be compromised by sunlight resulting in an unauthorised discharge of hydrocarbons to the stormwater network. The consent holder was advised that all chemicals and hydrocarbons need to be kept in bunded areas out of direct sunlight.

The consent holder was reminded to ensure that rust, fines, plastic or chemical/hydrocarbons are not stored in areas where they could enter the stormwater network to avoid a non-compliance status. The site was compliant at the time of inspection due to the fine weather. If the inspection had occurred during a period of rainfall, it is likely a number of the above contaminants would have discharged to stormwater and the site would have failed to be compliant with its consent conditions.

#### 24 May 2022

The yard was clean and tidy and appears to be well managed. No contaminants were observed around the stormwater drains, and no contaminants or blasting particulates were noted near the booths. Some small spot stains were seen near the bins by the engineering shed. The consent holder advised that routine cleaning this area will be added to the maintenance programme.

#### 4.2.1.1 Mobile blasting inspections

No notifications of off-site blasting were received during the monitoring period.

### 4.2.2 Results of discharge monitoring

The Energyworks' site was visited on one occasion during the period under review. However, there were no discharge was occurring at time and no samples could be collected.

## 4.3 Investigations, interventions, and incidents

In the 2021-2022 period, the Council was not required to undertake significant additional investigations and interventions, or record incidents, in association with Energyworks' conditions in resource consents or provisions in Regional Plans.

## 4.4 Evaluation of performance

A tabular summary of Energyworks' compliance record for the year under review is set out in Table 8 and Table 9.

Table 8 Summary of performance for Energyworks consent 9606-1

<b>Purpose: To discharge emissions into the air associated with abrasive blasting operations, spray painting and associated activities at a permanent site at Connett Road East, Bell Block and from mobile operations throughout the Taranaki region</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Specifies that conditions 2-7 and 18 apply to all operations, 8-12 to the permanent facility and 13-17 to mobile operations	N/A	N/A
2. Adopt the best practicable option	Inspection	Yes
3. No effects beyond boundary	Inspection	Yes
4. All abrasive blasting is to be conducted in conjunction with wind assessment	Inspection	N/A
5. Clean up of blasting media	Inspection	N/A
6. Blasting media used for dry abrasive blasting to meet certain specifications	Visual inspection of dust emissions	N/A
7. The consent holder shall ensure that all operators of abrasive blasting equipment understand and comply with the all the conditions of this consent	Inspection	N/A
8. All abrasive blasting on the consent holder's permanent site at Connett Road, East, Bell Block shall be carried out in an enclosed booth or shed	Inspection	N/A
9. All emissions from abrasive blasting be treated to a certain standard.	Inspection of emissions	N/A
10. The dust deposition rate beyond the property boundary of the permanent site at Connett Road East, Bell Block arising from the discharge, shall be less than 0.13 g/m <sup>2</sup> /day	Visual inspection of dust emissions	N/A
11. Adhere to and maintain an operations and management plan	Plan received	Yes
12. Keep records of complaints	Consent holder liaison	Yes
13. All items blasted in a mobile facility shall be those that cannot be moved to a permanent facility (e.g. bridges)	Inspection	Yes
14. Mobile blasting mitigation requirements	Inspection	Yes

<b>Purpose: To discharge emissions into the air associated with abrasive blasting operations, spray painting and associated activities at a permanent site at Connett Road East, Bell Block and from mobile operations throughout the Taranaki region</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
15. Public notification if dwellings within 200 m of mobile blasting	No mobile blasting this period within 200 m of dwelling	Yes
16. Limitation on effects of mobile blasting	Inspection	Yes
17. No blasting in coastal marine area.	Inspection	Yes
18. Lapse Condition	Consent exercised	N/A
19. Review condition	Next option for review in June 2023, recommendation attached in Section 16.4	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>High</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

N/A = not applicable or not assessed

**Table 9 Summary of performance for Energyworks consent 9962-1**

<b>Purpose: To discharge stormwater via the New Plymouth District Council reticulated stormwater system into an unnamed tributary of the Waitaha Stream</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Adopt best practice	Inspection	Yes
2. Stormwater catchment not to exceed 2.5 ha	Inspection	Yes
3. Discharge quality standards	Visual inspection	Yes
4. Receiving quality standards	Sampling	Yes
5. Contingency planning	Plan received	Yes
6. Stormwater management planning	Plan received	Yes
7. Notification of changes on site	No changes made	N/A
8. Review condition	Next optional review in June 2026	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>High</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

N/A = not applicable or not assessed

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

## 5 Greymouth Facilities Ltd

### 5.1 Site description

Greymouth Facilities Ltd (GFL), operate a storage and maintenance yard on Corbett Road, Bell Block (Figure 3). Stormwater generated at the 0.47 ha site is discharged into the NPDC stormwater system, which flows north along Corbett Road then east along Connett Road before discharging to the Waitaha Stream. The stormwater from Greymouth Facilities' site is treated in an oil separator, prior to discharging to NPDC's reticulation. Bunding around the site provides for onsite storage of excess stormwater during heavy rainfall events.



Figure 3 Aerial view of GFL site

GFL hold permit **9868-1** to discharge untreated stormwater from a yard used for storage and maintenance of hydrocarbon exploration drilling equipment directly onto and into land, and to discharge treated stormwater into the Waitaha Stream via the NPDC reticulated stormwater system, from an interceptor.

### 5.2 Results

#### 5.2.1 Inspections

Four routine inspections were conducted at the site during the monitoring period to assess compliance with resource consent conditions. These inspections were undertaken on 9 August 2021, 23 November 2021, 27 May 2022 and 13 June 2022.

### 9 August 2021

The inspection was undertaken during intermittent hail and rainfall, and moderate winds. The site was active during of the inspection. Pooling water was present throughout the site, however, there were no hydrocarbons sheens observed in any of the pools. There were no other contaminant spills observed on site and there were no dust discharges offsite. All IBCs and oil drums were clean with no signs of leakage. Stormwater discharge was being directed to the ring drain and through the interceptor. It was noted that the site to the north is bunded to prevent excess stormwater entering the treatment system.

### 23 November 2021

The consent holder was not on site and there was no activity taking place at the time of the inspection. There were no observed discharges of stormwater or dust offsite, nor were there any spills or sheens observed. The bunding between the two sites appeared to be secure. The ring drain was in good condition, however, the silt sock was nearly at full capacity debris and needed to be cleaned out. A few drums containing chemicals were stored on wooden pallets outside the bunded area. The consent holder was advised that drums needed to be stored in the bunded area, or on plastic containment pallets to prevent accidental discharge.

### 27 May 2022

No stormwater discharges were observed at the time of the inspection. The ring drain filter sock was full of debris and needed to be cleaned out. The chemical drums, which were previously stored outside, had been placed on appropriate plastic containment pallets. Bunding between the yards was secure.

### 13 June 2022

There were periods of very heavy showers and rain in the week prior to the inspection. Bunding between the sites was secure. The oil drum containment was working well, with only one drum left on site. No other issues were noted.

## 5.2.2 Results of discharge monitoring

The requirements for the discharge are that the suspended solids concentration must not exceed 100 g/m<sup>3</sup>, oil and grease concentration must not exceed 15 g/m<sup>3</sup>, and pH must lie in the range 6-9.

The discharge from the GFL site was sampled once during the period under review, and the results are provided in Table 10.

Table 10 GFL stormwater sampling results, site STW001110

Parameter	pH	Temperature	Conductivity	Suspended Solids	Oil & Grease	Hydrocarbons			
						C7 - C9	C10 - C14	C15 - C36	Total HC
Units	pH	°C	mS/m	g/m <sup>3</sup>					
25 July 2022*	7.8	9.7	6.2	<b>250</b>	< 4	< 0.10	< 0.2	0.6	< 0.7
<i>Consent limits</i>	6-9	-	-	<i>100</i>	<i>15</i>	-	-	-	-

\* note: the sample collected on 25 July 2022 was a 'catch up' sample

The suspended solids concentration measured in the discharge in July 2022 exceeded the allowable limit. Further enforcement was undertaken in response (section 5.3).

All other sampling results were within consented limits for the period under review.

### 5.3 Investigations, interventions, and incidents

Table 11 below sets out details of any incidents recorded, additional investigations, or interventions required by the Council in relation to GFL's activities during the 2021-2022 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 11 Incidents, investigations, and interventions summary

Date	Details	Compliant (Y/N)	Enforcement Action Taken?	Outcome
25 July 2022	Suspended solid levels in stormwater discharge exceeded resource consent limit. Discharge was also in contravention of Abatement Notice EAC-23509, issued as a result of a previous non-compliance in August 2020.	N	Abatement notice EAC-24747 was issued. GFL to further investigate and resolve the issue.	Compliance to be determined during 2022/2023 monitoring year

### 5.4 Evaluation of performance

A tabular summary of GFL's compliance record for the year under review is set out in Table 12 .

Table 12 Summary of performance for GFL consent 9868-1

<b>Purpose: To discharge untreated stormwater from a yard used for storage and maintenance of hydrocarbon exploration drilling equipment directly onto and into land, and to discharge treated stormwater into the Waitaha Stream via the NPDC reticulated stormwater system, from an interceptor</b>		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Clarification of circumstances under which discharges to land can occur	Inspection	Yes
2. Records to be kept of discharges to land	No such discharges have occurred	N/A
3. Adoption of best practicable option to minimise adverse effects on the environment	Inspection and liaison with consent holder. Best practicable option re-evaluated during the year under review, with revised treatment system proposed	<b>No</b> Ongoing issue with high levels of suspended solids
4. Catchment area limited to 1.065 ha	Inspection	Yes
5. Treatment of all stormwater by 31 October 2015	Inspection and liaison with consent holder	Yes
6. Limits on component concentrations in the discharge	Sampling	<b>No</b> One exceedance of suspended solids limit
7. Installation and maintenance of discharge sampling point	Inspection and liaison with consent holder	Yes

<b>Purpose: To discharge untreated stormwater from a yard used for storage and maintenance of hydrocarbon exploration drilling equipment directly onto and into land, and to discharge treated stormwater into the Waitaha Stream via the NPDC reticulated stormwater system, from an interceptor</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
8. Discharge cannot cause specified adverse effects beyond mixing zone	Visual assessment at inspection and chemical sampling of the stream	Yes
9. Maintenance of contingency plan	Review of Council records and documents submitted	Yes
10. Provision and maintenance of stormwater management plan	Review of Council records and documents submitted	Yes
11. No contaminants beyond the boundary from skimmer pit spillway discharges	Inspection	Yes
12. Soil component concentrations	Visual assessment at inspection	Yes
13. Notification of changes	Review of Council records and liaison with consent holder. Notification of proposed changes to treatment system	Yes
14. Provision for lapse of consent	Consent has been exercised	N/A
15. Optional review provision re environmental effects and/or notification of changes	Next option for review in June 2023, recommendation attached in Section 16.4	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>Good</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

N/A = not applicable or not assessed

During the year, GFL demonstrated a level of environmental performance that required improvement and a high level of administrative performance as defined in Appendix II. Abatement notices have been issued to GFL over two consecutive monitoring periods as levels of suspended solids in stormwater were above consented thresholds. GFL need to investigate and mitigate the source of suspended solids in the stormwater discharge on site.

## 6 Intergroup Ltd

### 6.1 Site description

Intergroup Ltd (Intergroup) operates a waste disposal company from their site on Hudson Road, Bell Block. The site comprises of 3,903 m<sup>2</sup> of industrial land including buildings and mainly sealed areas. The site is used as a transit depot and temporary storage facility for waste materials collected from throughout the Taranaki region prior to transportation on to an appropriate disposal site.

The majority of the waste collected is waste oil, which is stored in tanks located in a bunded area. An open concrete pit contains a series of separators and is used for the separation of sludge and water from the waste oil (Photo 4). The wastewater from this process is directed to trade waste and the oily sludge is taken to an off-site location for weathering/bioremediation prior to final disposal. The waste oil is transported up to a sister company in Auckland, which undertakes the disposal.



Photo 4 Intergroup Ltd oil treatment facility

A second open pit is a drive-in facility for the transfer of domestic septic tank effluent from the trucks to the trade waste system.

Stormwater from the yard area enters the NPDC system and is then discharged to the Waitaha Stream.

Potential therefore exists for minor amounts of sewage effluent, petroleum products or other contaminants to enter the stormwater system via drains on site.

Intergroup holds water discharge permit **4776-2** to cover the discharge of treated stormwater from a liquid wastes processing and chemical consolidation facility onto and into land, and into the Waitaha Stream via the NPDC reticulated stormwater system.

## 6.2 Results

### 6.2.1 Inspections

Three routine inspections were conducted at the site during the monitoring period to assess compliance with resource consent conditions. These inspections were conducted on 29 July 2021, 23 November 2021 and 13 June 2022. Further to these inspections, there was one onsite meeting on 12 August 2021 where the Council provided advice and information to consent holder.

#### 29 July 2021

A number of activities were observed during the inspection that were not in line with best practice:

- An unknown contaminant was discharged from a tanker truck to trade waste, The truck was then washed down outside of the bunded area;
- Vehicles used to move fracking sand were stored outside of the bunded area. The wheels of these vehicles were coated in the silica fracking sand. The sand was present throughout the site and could be seen in areas where it could enter stormwater drains;
- In three separate locations, hydrocarbons were noted in areas next to the stormwater network and could be seen discharging directly to stormwater drains at two of the locations.

Overall, the management and maintenance of the site needed to be improved. The site was considered non-compliant at the time of the inspection.

#### 12 August 2021

A representative of the consent holder met onsite with Council staff to discuss non-compliance issues identified during the July 2021 inspection. A site walk was conducted, with discussion of actions to be completed to comply with the consent in future. The following actions will be undertaken by Intergroup:

- Replace missing spill kit
- Install spill kit signage
- Fix pot holes
- Install new bunding on one side of the wash (hot mix bunding)
- Fix bunding by instrument shed
- Fracking sand to immediately go into bins and not to be stored on the ground
- Hold toolbox meeting about yard spills
- The yardman to conduct inspections at the end of the workday to check the yard for spills.

#### 23 November 2021

It was noted that issues from the July 2021 non-compliance had been addressed, with actions from the onsite meeting followed up. This included the installation of spill kits at the site (just awaiting the arrival of signage). The stormwater drains appeared to be visually clear of contaminants and there were no unauthorised hydrocarbon discharges. There were no stormwater discharges occurring at the time of the inspection.

#### 13 June 2022

The inspection was conducted during periods of heavy rain. The site had been redeveloped with a large concrete area added to increase the effective bunded area. A slight hydrocarbon odour was present but could not be detected beyond the property boundary. A small spill had been identified from a 20L container, this had already been remediated with sawdust and spill filters.

## 6.2.2 Results of discharge monitoring

The main stormwater discharge point at Intergroup was sampled once during the period under review, with the results presented in Table 13.

Table 13 Intergroup stormwater sampling results, site STW001059

Parameter	pH	Temperature	Conductivity	Suspended Solids	Zinc (dissolved)	Oil & Grease	Hydrocarbons			
							C7 - C9	C10 - C14	C15 - C36	Total HC
Units	pH	°C	mS/m	g/m <sup>3</sup>						
25 July 2022*	8.2	11.4	20.5	165	-	12	< 0.10	< 0.2	2.7	2.8
Consent limits	6-9	-	-	100	-	15	-	-	-	-

\* note: the sample collected on 25 July 2022 was a 'catch up' sample

The suspended solids concentration measured in the discharge sampled in July 2022 exceeded the consented limit, and further action was undertaken (section 6.3).

## 6.3 Investigations, interventions, and incidents

Table 14 below sets out details of any incidents recorded, additional investigations, or interventions required by the Council in relation to Intergroup's activities during the 2021-2022 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 14 Incidents, investigations, and interventions summary

Date	Details	Compliant (Y/N)	Enforcement Action Taken?	Outcome
29 July 2021	During a routine inspection several non-compliances were noted.	N	Abatement notice EAC-24188 was issued in August 2021.	A meeting was held onsite to discuss the issues and re-inspection found that work had been undertaken to comply with consent conditions.
25 July 2022	During routine sampling the level of suspended solids exceeded the consent limit	N	Infringement notice EAC-24831 was issued in November 2022	Further explanation was requested and received. Further investigation and action will be discussed in the 2022-23 annual report.

## 6.4 Evaluation of performance

A tabular summary of Intergroup's compliance record for the year under review is set out in Table 15.

Table 15 Summary of performance for Intergroup Ltd consent 4776-2

<b>Purpose: To discharge treated stormwater from a liquid wastes processing and chemical consolidation facility onto and into land and into the Waitaha Stream via the NPDC reticulated stormwater system (in force from 31 March 2016)</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Adopt best practicable option	Inspection	<b>No</b> Several issues noted during inspection
2. Bund for unwashed vessels storage	Inspection	Yes
3. Limit stormwater catchment area	Inspection	Yes
4. Limits on chemical composition of discharge	Sampling and visual assessment at inspection	<b>No</b> Suspended solids exceeded on one occasion
5. Discharge cannot cause specified adverse effects beyond mixing zone	Visual assessment at inspection and receiving water sampling	Yes
6. Maintain contingency plan	Consent holder liaison and inspection	Yes
7. Maintain and adhere to management plan	Consent holder liaison and inspection	Yes
8. Notification of changes in site processes	Consent holder liaison and inspection	N/A
9. Optional review provision re environmental effects	Next optional review in June 2026	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>Improvement required</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

N/A = not applicable or not assessed

During the year, Intergroup Ltd demonstrated that the level of environmental performance required improvement and a high level of administrative performance as defined in Appendix II. The Council acknowledges the good work Intergroup has undertaken to update and improve onsite practices for the prevention unauthorised contaminants discharging into stormwater. However, the high levels of suspended sediment in the stormwater discharge were still an issue and will need to be addressed.

## 7 Meredith Metals

### 7.1 Site description

During the monitoring period under review, Global Metal Solutions Ltd (GMS) operated part of a site held by Meredith Metals Ltd (Meredith Metals); a scrap metal and car recycling yard on Catalina Place, Bell Block. Fluids were drained from the cars on a concrete pad prior to being crushed and sold for scrap. The scrap yard encompassed two legal titles, known informally as Catalina (Site A) and de Havilland (Site B) (Figure 4). Site B has been inactive since April 2021 and has since been sold.

Stormwater from the site discharges at three points, two of which flow into the Waitaha catchment via the NPDC reticulation and the third to the Waiongana catchment (Figure 4). GMS operated and occupied Site A until August 2021, while Site B was managed entirely by Meredith Metals.



Figure 4 Aerial view of Meredith Metals site and sampling locations

Meredith Metals hold two resource consents, **9911-1** allows for the discharge of contaminants onto and into land associated with scrap metal storage and processing, while **9912-1** covers the discharge of stormwater from scrap metal storage and processing into the Waitaha Stream and into an unnamed tributary of the Mangaoraka Stream. Both consents covered Sites A and B for the monitoring period. However in April 2021, a change of consent was processed to remove Site B. Both consents now apply to Site A only.

## 7.2 Results

### 7.2.1 Inspections

Four routine inspections were conducted at the site during the monitoring period to assess compliance with resource consent conditions. These inspections were conducted on 23 July 2021, 22 November 2021, 18 May 2022 and 9 June 2022.

#### 23 July 2021

There was minimal activity occurring on site the access was locked to prevent public entry. No contaminants were found to be discharging off site. As per the National Environmental Standards (NES) for storing tyres outdoors, the tyres observed the rear of the property would need to be removed immediately.

#### 22 November 2021

During the inspection, tyres were being bailed up for removal and the contaminants below the tyre pile were being removed. Excluding the removal of tyres, there had been minimal activity on site since the previous inspection.

There were no spills or sheens observed on site. There were no discharges to the stormwater network and no ground disturbance around discharge points on Catalina and de Havilland Drive. Stormwater from the Catalina Place site was being directed away from the de Havilland Drive site and on to land.

#### 18 May 2022

The site was being cleared of equipment and rubbish at the time of the inspection. A pile of tyres (around 300 m<sup>3</sup>) was being stored outside and, as noted previously, this is in breach of the NES. The new consent holder, Urban Aspects, had been contacted and explained that the Covid pandemic had prevented the contractor from removing the remaining tyres stored outside on the site. The consent holder agreed to remove the remaining tyres within six months.

#### 9 June 2022

The site had mostly been cleared, with only a pile of tyres remaining. The tyres were to be completely removed by October 2022.

### 7.2.2 Results of discharge monitoring

Samples of stormwater could not be collected from the three discharge points on 25 July 2022. There was no access to STW001141. And while there was not enough discharge at STW002088 for a sample, a hydrocarbon sheen was observed in the small amount of discharge. STW001142 was not visited on this sampling occasion.

## 7.3 Investigations, interventions, and incidents

In the 2021-2022 period, the Council was not required to undertake significant additional investigations and interventions, or record incidents, in association with Meredith Metals' conditions in resource consents or provisions in Regional Plans.

## 7.4 Evaluation of performance

A tabular summary of Meredith Metals' compliance record for the year under review is set out in Table 16 and Table 17.

Table 16 Summary of performance for Meredith Metals consent 9912-1

<b>Purpose: To discharge stormwater from scrap metal storage and processing into the Waitaha Stream and into an unnamed tributary of the Mangaoraka Stream via the NPDC reticulated stormwater system</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Adopt best practice	Inspection	Yes
2. Stormwater catchment not to exceed 1.7 ha	Inspection	Yes
3. Discharge quality standards	Sampling	Yes
4. Receiving quality standards	Sampling	Yes
5. Contingency planning	Plan received	Yes
6. Stormwater management planning	Plan received	Yes
7. Notification of changes on site	No changes made	N/A
8. Lapse condition	Consent exercised	N/A
9. Review condition	Next optional review in June 2026	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>High</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

N/A = not applicable or not assessed

Table 17 Summary of performance for Meredith Metals consent 9911-1

<b>Purpose: To discharge contaminants onto and into land associated with scrap metal storage and processing</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Adopt best practice	Inspection	Yes
2. Discharge not to affect adjacent properties	Inspection	Yes
3. Groundwater not to be affected	Assessed via periodic soil sampling - not assessed this period	N/A
4. Metal limits in soils	Assessed via periodic soil sampling - not assessed this period	N/A

<b>Purpose: To discharge contaminants onto and into land associated with scrap metal storage and processing</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
5. Hydrocarbon limits in soils	Assessed via periodic soil sampling - not assessed this period	N/A
6. Notification of changes on site	No changes made	N/A
7. Pre-surrender contaminant limits in soils	N/A	N/A
8. Surrender of consent not to occur without compliance with condition seven	N/A	N/A
9. Review condition	Next optional review in June 2026	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>High</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

N/A = not applicable or not assessed

During the year, Meredith Metals Ltd demonstrated a high level of environmental and administrative performance with their resource consents as defined in Appendix II.

## 8 New Plymouth District Council

### 8.1 Site description

The New Plymouth District Council (NPDC) stormwater system carries discharges from the roads and industrial subdivisions in the Corbett Road, Connett Road and De Havilland Drive areas to the Waitaha Stream (Figure 5).



Figure 5 NPDC stormwater catchment, reticulation, and discharge points

Historically, the consented discharge points were located on the eastern side of the stream at the end of Connett Road (consent 0608) and into an unnamed tributary/open drain through farm land on the western side of the stream (consent 0609). However, Connett Road has since been extended to meet at the Waitaha

Stream, and the discharge point for the consent is now immediately below the culvert where Connett Road crosses the stream.

NPDC hold consent **0609-3** to discharge stormwater from industrial land in the Waitaha catchment via multiple outfalls between De Havilland Drive and State Highway 3 into the Waitaha Stream and various unnamed tributaries of the Waitaha Stream.

## 8.2 Results

### 8.2.1 Inspections

Four routine inspections were conducted at the site during the monitoring period to assess compliance with resource consent conditions. These inspections were conducted on 23 July and 23 November 2021, and 26 May 2022 and 9 June 2022.

#### 23 July 2021

No further erosion of the surrounding land was evident during the inspection. Both culverts were running clear, with no visual adverse effects.

#### 23 November 2021

Inspection found that the main stream was flowing clear with minimal discharge occurring from left-hand consented culvert. Some water containing sediment was discharging from the right-hand culvert. There was some sediment build-up still occurring around the right-hand culvert, this would need to be monitored. The consent holder was asked to control vegetation around the culvert to ensure safe access to the area.

#### 26 May 2022

Water in both culverts had a clear appearance. Some suspended solids were observed just down from the culvert which made the stream water slightly muddy in colour. The controls put in place to prevent erosion appeared to be working. However, there was still thick vegetation on either side of the stream which needed to be controlled to allow access to the culvert.

#### 9 June 2022

No issues were noted at the time of the inspection.

### 8.2.2 Results of discharge monitoring

Samples of the discharge from the NPDC stormwater reticulation are collected from four locations in the catchment:

#### NPDC Connett Road East (site code STW001111)

Collected directly from the NPDC reticulation on Connett Road East. This site is located upstream of all inflows from consented sites in the Waitaha Catchment and acts as control site for NPDC stormwater.

#### NPDC Connett Road to Waitaha Stream (western side) (site code STW001112)

Outlet from the NPDC reticulation on the left bank of the Waitaha Stream. This also discharges stormwater from the GFL and Symons sites.

#### NPDC Connett Road to Waitaha Stream (eastern side) (site code STW001061)

Outlet from the NPDC reticulation on the right bank of the Waitaha Stream. This also discharges stormwater from the C&O Concrete, Energyworks, Intergroup and Zelum sites.

### Waitaha Stream unnamed trib. downstream de Havilland Drive (site code WTH000037)

The fourth site is located at the outlet of a piped tributary on the right bank of the Waitaha Stream on de Havilland Drive. Stormwater runoff from the nearby road and neighbouring properties also discharges into the stream at this outlet. And thus, is managed by NPDC as part of their consented stormwater discharges in the area.

#### 8.2.2.1 Mid catchment stormwater sampling results

The mid catchment stormwater sites (WTH000037 and STW001111) were visited on 25 July 2022. Access restrictions prevented sampling at the Connett Road East site, while the results of the samples from Waitaha Stream tributary are shown in Table 18.

Table 18 NPDC stormwater sampling results mid catchment, 25 July 2022\*

Parameter	Unit	STW001111	WTH000037	RFWP Guidelines
Temperature	°C	N/A	11.1	-
pH	pH	N/A	8.6	6-9
Conductivity	mS/m	N/A	12.5	-
DO	mg/L	N/A	10.7	-
	%	N/A	97.4	-
CBOD	g O <sub>2</sub> /m <sup>3</sup>	N/A	1.8	-
TBOD	g O <sub>2</sub> /m <sup>3</sup>	N/A	5.8	5
Turbidity	FNU	N/A	420	-
<b>Metals (acid soluble)</b>				
Copper	g/m <sup>3</sup>	N/A	0.071	-
<b>Metals (dissolved)</b>				
Copper	g/m <sup>3</sup>	N/A	0.0045	-
Manganese	g/m <sup>3</sup>	N/A	0.0143	-
Nickel	g/m <sup>3</sup>	N/A	< 0.0005	-
Zinc	g/m <sup>3</sup>	N/A	0.0013	-

N/A: no access

\* note: the sample collected on 25 July 2022 was a 'catch up' sample

Total biological oxygen demand (TBOD) was just above the 2001 RFWP recommended guideline value of 5 g O<sub>2</sub>/m<sup>3</sup>. No follow up action for this result is required at this stage.

Traffic at site STW001111 make access to the manhole unsafe and the Council has not been able to collect a sample from the site for a number of sample surveys. It is recommended, that NPDC find a way to safely access the site so that a sample can be collected. Or a new representative site is found to replace STW001111.

#### 8.2.2.2 Lower catchment stormwater sampling results

The lower catchment stormwater sites (STW001112 and STW001061) were visited on 25 July 2022. The location of the sampling sites is shown in Figure 6, samples were collected from both sites. The results are shown in Table 19.



Figure 6 NPDC stormwater discharge sites to the Waitaha Stream

Table 19 NPDC stormwater sampling results lower catchment, 25 July 2022\*

Parameter	Unit	STW001112	STW001061	RFWP Guidelines
Temperature	°C	12.6	13.3	-
pH	pH	7.2	6.8	6-9
Conductivity	mS/m	13.1	16.2	-
Oil and Grease	g/m <sup>3</sup>	< 5	< 4	15
Suspended solids	g/m <sup>3</sup>	<b>330</b>	21	100
Turbidity	FNU	400	-	-
<b>Metals (acid soluble)</b>				
Copper	g/m <sup>3</sup>	0.090	0.0091	-
<b>Hydrocarbons</b>				
C7 - C9	g/m <sup>3</sup>	< 0.10	< 0.10	-
C10 - C14	g/m <sup>3</sup>	< 0.2	< 0.2	-
C15 - C36	g/m <sup>3</sup>	0.7	< 0.4	-
Total HC	g/m <sup>3</sup>	0.8	< 0.7	-

\* note: the sample collected on 25 July 2022 was a 'catch up' sample

Results showed that concentrations of oil and grease were within the 2001 RFWP guidelines or below limits of detection. The level of suspended solids at STW001112 were three times the RFWP guideline value of 100 g/m<sup>3</sup>. This result suggests a moderate source of suspended solids is able to enter the Waitaha Stream, via the NPDC stormwater network, during wet weather. The source of the suspended solids should be investigated further. However, no enforcement action was taken following the July 2022 sampling results.

### 8.3 Investigations, interventions, and incidents

In the 2021-2022 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.

### 8.4 Evaluation of performance

A tabular summary of NPDC's compliance record for the year under review is set out in Table 20.

Table 20 Summary of performance for NPDC consent 0609-3

<b>Purpose: To discharge stormwater from industrial land in the Waitaha catchment via multiple outfalls between De Havilland Drive and State Highway 3 into the Waitaha Stream and various unnamed tributaries of the Waitaha Stream.</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Adopt best practice	Inspection/ liaison with consent holder	Yes
2. Size and location of catchment	Inspection/ liaison with consent holder	Yes
3. Limits effects in receiving water	Inspection/sampling	Yes
4. Mitigation of erosion	Inspection	Yes
5. Not to cause increase in depth or frequency of flooding	Inspection/ Review of hydrological data	Yes
6. Provision of a management plan by 2020	Management plan provided	N/A
7. Review	Next option for review in June 2023, recommendation attached in Section 16.4	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>High</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

N/A = not applicable or not assessed

During the year, New Plymouth District Council demonstrated a high level of environmental and administrative performance with the resource consent as defined in Appendix II. While no enforcement action was taken in response elevated level of suspended solids at STW001112, it is suggested that NPDC investigate the source of suspended solids to the stormwater network at this sampling site. Further to this, during the optional review scheduled for June 2023, it is recommended that NPDC investigate safe sampling access to site STW001112 or look at replacing the sample site completely.

## 9 Pounamu Oilfield Services Ltd

### 9.1 Site description

Pounamu Oilfield Services (Pounamu) (previously Weatherford New Zealand Ltd) has a 1.7 ha yard on Dakota Place for storage and maintenance of drill pipe, down-hole tools and other miscellaneous equipment used in the oil industry (Figure 7). New casing and drill pipe is cleaned to remove protective grease, which until the 1980's contained some copper and zinc, and a high proportion of lead. Kerosene is brushed onto the threads and the oil/kerosene mix is washed off with a water blaster. Kerosene is only used when oil and grease cannot be removed by water alone. A phosphate bath is used for the etching of pipes in the lower yard. The chemicals in this bath also contain nickel and manganese. Minor amounts of waste from this process may be discharged to the stream via the lower wash pad interceptor.

There are two wash pads at the site. The wash pad in the upper catchment drains to a small three stage interceptor which discharges onto land just over 50 m from the tributary. There is no bunding around either of the wash pads, so a significant volume of stormwater from the upper and lower yards flows through the interceptors during rainfall events.

The property slopes towards the Waitaha Stream where it runs along the western boundary and towards the unnamed tributary that runs along the northern boundary. The site is mostly metalled, with only the wash pad areas sealed. Recent works have been undertaken on site to direct overland flow to sediment settling ponds for treatment.



Figure 7 Aerial view of Pounamu site and sampling locations

Pounamu hold water discharge permit **4775-2** to discharge treated and untreated stormwater from an oilfield engineering services premises onto land and into an unnamed tributary of the Waitaha Stream and into the Waitaha Stream.

## 9.2 Results

### 9.2.1 Inspections

Four routine inspections were conducted at the site during the monitoring period to assess compliance with resource consent conditions. These inspections were conducted on 23 July 2021 and 23 November 2021, and on 27 May and 13 June 2022.

#### 23 July 2021

There was no activity on site at the time of the inspection. Stormwater was being directed to the pond system and the pond level was below the discharge pipes. It was considered likely that the water was leaching through land, however, there were no obvious adverse effects on the receiving water. The interceptor was being emptied regularly according to the visitors register, with it being emptied on both the 13th and 21st of July. The interceptor level was low, with liquid present only in the first chamber. No signs of discharge were present. No dust was being generated from any part of the site.

#### 23 November 2021

The pond was around half full and there was no evidence of any recent discharge. Interceptor Bay 3 was just beginning to receive from Bay 2. Intergroup arrived during the inspection to empty the interceptor. There were no signs of spills or sheens around the site. A small amount of dust was being generated from vehicle movements but this quickly dissipated and did not migrate off-site.

#### 27 May 2022

The yard was clean and tidy and there was no dust observed. No discharge was occurring from the interceptor, which is emptied every second week. The first baffle was full, the second half full with the third baffle empty. The pond was low and not discharging.

#### 13 June 2022

The inspection was conducted after several days of heavy rain. There was no discharge occurring from the holding pond. The third chamber of the interceptor had filled to near capacity and Intergroup had been contacted to remove the liquid in the interceptor. The set up and drainage for water blasting activities was also observed during the inspection.

### 9.2.2 Results of discharge monitoring

The sediment settling pond consistently operates at a low level and discharges infrequently. In the absence of flow, representative samples are collected from within the pond adjacent to the outlet to ascertain compliance in the event of a discharge. The results of sampling for the monitoring period under review are presented in Table 21.

Table 21 Pounamu sediment pond sampling results for site STW002025

Parameter	Unit	25 July 2022*	Consent limits
Temperature	°C	9.2	-
pH	pH	7.2	6-9
Conductivity	mS/m	4.8	-
Oil and Grease	g/m <sup>3</sup>	< 4	15
Suspended solids	g/m <sup>3</sup>	57	100
Metals (acid soluble)			
Copper	g/m <sup>3</sup>	0.0141	-

Parameter	Unit	25 July 2022*	Consent limits
Lead	g/m <sup>3</sup>	0.0157	0.1
Manganese	g/m <sup>3</sup>	0.034	-
Nickel	g/m <sup>3</sup>	0.0159	
Zinc	g/m <sup>3</sup>	0.088	-
Metals (dissolved)			
Copper	g/m <sup>3</sup>	-	0.05
Manganese	g/m <sup>3</sup>	-	-
Zinc	g/m <sup>3</sup>	-	0.65
Hydrocarbons			
C7 - C9	g/m <sup>3</sup>	< 0.10	-
C10 - C14	g/m <sup>3</sup>	< 0.2	-
C15 - C36	g/m <sup>3</sup>	< 0.4	-
Total HC	g/m <sup>3</sup>	< 0.7	-
Nutrients			
NH <sub>4</sub>	g/m <sup>3</sup>	-	-
DRP	g/m <sup>3</sup>	< 0.004	-

\* note: the sample collected on 25 July 2022 was a 'catch up' sample

Concentrations of acid soluble copper, lead, manganese, nickel and zinc were detected in the sample from STW002025 on this sampling occasion. However, the concentrations of these variables were below consented thresholds for dissolved metals.

### 9.3 Investigations, interventions, and incidents

In the 2021-2022 period, the Council was not required to undertake significant additional investigations and interventions, or record incidents, in association with Pounamu Oilfield Services' conditions in resource consents or provisions in Regional Plans.

### 9.4 Evaluation of performance

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

Table 22 Summary of performance for Pounamu Oilfield Services Ltd consent 4775-2

Purpose: To discharge of treated and untreated stormwater onto land and into a stream		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Adopt best practice	Site inspection	Yes
2. Catchment area limit	Site inspection	Yes
3. Stormwater to be treated	Inspections and chemical sampling	Yes
4. Limits on contaminants in discharge	Inspections and chemical sampling	Yes
5. Limits on effects	Inspections and chemical sampling	Yes

<b>Purpose: To discharge of treated and untreated stormwater onto land and into a stream</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
6. Preparation and maintenance of contingency plan	Review of documentation submitted to Council	Yes
7. Preparation and maintenance of stormwater management plan	Review of documentation submitted to Council	Yes
8. Notification of changes	None received	N/A
9. Review condition	Next optional review in June 2026	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>High</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

N/A = not applicable or not assessed

During the year, Pounamu Oilfield Services Ltd demonstrated a high level of environmental and administrative performance with the resource consent as defined in Appendix II.

## 10 SRG Global Asset Services (Taranaki) Ltd, formerly TBS Coatings Ltd

### 10.1 Site description

Abrasive blasting is used at SRG Global Asset Services (Taranaki) Ltd's (SRG), formerly TBS Coatings, site to clean and prepare surfaces for painting. The process involves blasting an abrasive substance onto the surface of the object in question.

Material from the blasting process becomes airborne due to the release of high pressure air used to accelerate the abrasive media to the required cleaning velocities. Spray painting is also carried out on the site. All blasting and painting is carried out in enclosed areas.

There are emissions into the air from the operations associated with blasting and coating (Figure 8). The blasting medium is usually dust-free, however after being propelled against surfaces to be treated, clouds of detritus are typically created. Paint fragments, rust particles, and shattered blast media may be carried several hundred metres if air pollution suppression equipment is not used. Paints are predominantly industrial zinc primers, epoxies intermediate and acrylic epoxy finishes.



Figure 8 Aerial view of SRG yard and associated monitoring sites

The enclosed blasting facilities at this site are designed for control of emissions and recovery of blasting material. The larger blasting booth is a side draught booth connected to two dust collectors (both 550 m<sup>3</sup>/minute capacity wet scrubbers) in parallel.

The smaller grit blast booth has been recently upgraded and the previous wet scrubber fan and conveyor recycling system were replaced with a vacuum unit coupled to a reverse pulse dry bag dust control system located fully indoors with zero emissions.

SRG recently dug out areas of the metal yard and laid bitum cloth underlay prior to reinstating heavy rolled metal mixed with used road millings as a trial to reduce metallised yard dust. Early indications are that this process has provided a less dusty more robust heavy traffic surface and is preventing fines from surfacing and becoming wind-blown dust. The company has committed to completing a further trial area of metal upgrading. It is estimated that total dust emission from the site has been reduced by a third as a result of the recent upgrades.

SRG also undertakes mobile blasting operations throughout Taranaki. Portable equipment is used for the blasting and coating of fixed structures such as bridges, water tanks, pipelines, buildings and steel structures. Temporary screens are constructed around the items being worked on to contain dust emissions and depositions, and to restrict the spread of blasting debris.

Where mobile blasting is to be done in residential or urban areas, NPDC is given prior notification. In cases where the material to be removed or applied is likely to contain toxic substances such as lead, arsenic, chromium or zinc, the Taranaki Health Board is informed.

SRG holds air discharge permit **4056-3** to cover emissions into the air from abrasive blasting operations and associated processes at a permanent site at Corbett Road, Bell Block, and from mobile operations at various locations throughout the Taranaki region.

## 10.2 Results

### 10.2.1 Inspections

Three routine inspections were conducted at the site during the monitoring period to assess compliance with resource consent conditions. These inspections were conducted on 8 and 23 November 2021, and on 19 May 2022.

#### 8 November 2021

Dust scrubbers were active at the time of the inspection and a Dust Trak measurement indicated that very low levels of dust being generated. It was noted that the scrubbers are on a monthly cleaning roster to ensure they function correctly. There was no visible dust generation on site when the wind was blowing. Vehicle movement appeared to aggravate the dust, however, this dissipated quickly. There was a very faint paint fume odour but this odour did not extend off site. All blasting and painting was conducted within covered booths to prevent discharge.

#### 23 November 2021

The site was operating as normal. There was no visible dust being generated from the scrubbers and no dust was observed discharging from the site. There were no spills or sheens present around the site, and no noticeable odours.

#### 19 May 2022

The scrubber and blasting shed were not in operation at the time of the inspection. There were no detectable odours present. There was a small amount of blasting particulate on the ground near the northern boundary where outside blasting had taken place. The consent holder was advised to remove this.

#### 10.2.1.1 Mobile blasting inspections

No notifications of off-site blasting were received during the monitoring period.

## 10.2.2 Results of receiving environment monitoring

Many industries emit dust from various sources during operational periods. In order to assess the effects of the emitted dust, industries have been monitored using deposition gauges.

Deposition gauges are basic buckets elevated on a stand to around 1.6 m height. The buckets have a solution in them to ensure that any dust that settles out of the air is not re-suspended by wind.

Gauges are placed around the site and within the surrounding community. The gauges were deployed in the vicinity of the SRG site on one occasion during the year under review.

The rate of dust fall is calculated by dividing the weight of insoluble material (grams) collected by the cross-sectional area of the gauge (m<sup>2</sup>) and the number of days over which the sample was taken. The units of measurement are grams/m<sup>2</sup>/day (g/m<sup>2</sup>/day).

Guideline values used by the Council for dust deposition are 4 g/m<sup>2</sup>/30 days or 0.13 g/m<sup>2</sup>/day deposited matter. Consideration is given to the location of the industry and the sensitivity of the surrounding community, when assessing results against these values. However SRG have a condition on their consent that limits the dust deposition rate beyond the boundary of their property to 4 g/m<sup>2</sup>/30 days.

Material from the gauges was sifted to remove any incidental organic debris and insects, and then analysed for solid particulates.

The number and position of deposition gauges is governed by the location of potential dust emission sources, the direction of predominant winds, and the position of sensitive areas in the surrounding environment. The sites monitored for SRG's facility are shown in Figure 8 and site descriptions are given in Table 23.

Table 23 SRG particulate deposition monitoring sites

Site code	NZTM Coordinates	Location
AIR006501	1701416E – 5678078N	NE boundary, outside white gates - near scrubber sludge disposal area
AIR006502	1701275E – 5678067N	Inside boundary. Yard in NW corner, N of secondary blasting shed
AIR006505	1701488E – 5677988N	E boundary, at gap in shelter belt opposite blasting shed, near spent media disposal area
AIR006503	1701411E – 5677885N	S boundary, outside fabric screen at railway line
AIR006504	1701465E – 5677729N	Paddock beside house of nearest neighbour ~ 150 m S on Ninia Road

Site AIR006502 is positioned inside the property boundary screenings, and so the consent limit and guideline cannot be applied. However, measurements made at this site are useful for determining the potential for offsite effects and for assessing the source of particulates. The consent limit and guideline is applicable at sites AIR006501, AIR006503, AIR006504 and AIR006505.

Results of the monitoring for the period under review are given in Table 24.

Table 24 Deposition gauging results for the SRG site for 2021-2022 (deployed in March 2022)

Site	Number of days deployed	Deposited particulate g/m <sup>2</sup> /day	Consent limit g/m <sup>2</sup> /day
AIR006501	21	0.02	0.13
AIR006502	21	0.07	-
AIR006503	21	0.01	0.13
AIR006504	21	0.04	0.13
AIR006505	21	0.07	0.13

The monitoring found that the deposited particulate collected at the monitoring locations at or beyond the site boundary complied with the limit set in the resource consent.

### 10.3 Investigations, interventions, and incidents

In the 2021-2022 period, the Council was not required to undertake significant additional investigations and interventions, or record incidents, in association with SRG's conditions in resource consents or provisions in Regional Plans.

### 10.4 Evaluation of performance

A tabular summary of SRG's compliance record for the year under review is set out in Table 25.

Table 25 Summary of performance for SRG Global consent 4056-2

<b>Purpose: To discharge emissions into the air from abrasive blasting operations and associated process at a permanent site at Corbett Road, Bell Block, and from mobile operations at various locations throughout the Taranaki Region</b>		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Adoption of best practicable option to minimise effects on the environment	Inspection and discussion with consent holder	Yes
2. Blasting in enclosed facility	Inspection and discussion with consent holder	Yes
3. Sand to have low active silica content and percentage of fine particles	Sand not used during the year under review	N/A
4. Consideration of wind conditions to minimise off-site emissions	Inspection. No complaints received	Yes
5. Clearance of blasting material	Inspection	Yes
6. Offensive and objectionable odours and dust beyond boundary not permitted	Inspection and incident investigation	Yes
7. Avoidance of dry sand blasting for yard and mobile blasting	Inspection and liaison with consent holder	Yes

<b>Purpose: To discharge emissions into the air from abrasive blasting operations and associated process at a permanent site at Corbett Road, Bell Block, and from mobile operations at various locations throughout the Taranaki Region</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
8. Compliance of operators with conditions	Inspection	Yes
9. Treatment of emissions prior to discharge at permanent facilities	Suspended particulate monitoring at inspection	Yes.
10. Dust deposition rate limit beyond boundary	Deposition gauge monitoring	Yes
11. Maximum concentrations of lead, chromium and zinc	Not measured. Discussions with consent holder about materials blasted	N/A
12. Infrequent allowance of yard operations	No notification of yard blasting received. No yard blasting found at inspections	Yes
13. Notification prior to yard operations	Inspection and observation when inspecting officer is in the vicinity of the site on other business. No yard blasting noted during year under review	N/A
14. Screening to contain emissions	No yard blasting noted during year under review	N/A
15. Screening of items to be blasted	Inspection	Yes
16. Notification to New Plymouth District Council prior to blasting in urban areas	Notification received	Yes
17. Notification to Council prior to blasting in close proximity to water course	Notification received	Yes
18. Written Council approval and notification of affected parties prior to blasting close to boundaries	No mobile blasting close to boundaries during the year under review	N/A
19. Ambient suspended particulate limit for public amenity areas	Not assessed	N/A
20. Effects on surface water bodies not permitted	Inspection	Yes
21. Optional review provision re environmental effects	Next option for review in June 2023, recommendation attached in Section 16.4	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>High</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

N/A = not applicable or not assessed

During the year, SRG Global Asset Services (Taranaki) Ltd demonstrated a high level of environmental and administrative performance with the resource consent as defined in Appendix II.

## 11 Symons Property Development Ltd

### 11.1 Site description

Symons Property Developments Ltd (Symons) holds a consent to discharge stormwater from their truck depot and pipe washing facility on Connett Road East, Bell Block. The site was recently developed, and formal drainage has been established. The companies operating from the site are: Symons Transport Ltd, operating road tankers that are used to transport bulk liquids between processing plants; and Symons Energy Ltd, providing support services to the oil and gas industry including transportation and cleaning of drilling pipes, and storage and distribution of products such as those used in drilling mud. Collectively, these companies are known as the Symons Group.

The Symons Property site has three main sections; the upper yard is occupied by Symons Transport and is used for truck washing and truck storage. The middle yard has amenities block, and administration building and pipe storage areas. The lower yard is used for pipe storage, pipe preparation and pipe washing (Figure 9).



Figure 9 Aerial view of Symons site and various work areas

Symons hold consent **7805-1** to discharge stormwater from a truck depot and pipe cleaning facility into the Waitaha Stream.

### 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 12 August 2021,

26 November 2021, and 8 June 2022. A representative of the consent holder was present at all three inspections.

#### 12 August 2021

The lower site was clean and tidy and had a new stormwater system, which appearing to be working well. However during the inspection, staff at Symons voiced concerns about the stormwater systems ability to function correctly. It was agreed that further stormwater sampling will be taken in future.

Near the sump at storage transfer area, a discussion was held about the increasing amount of sediment that was filling up the stormwater drain. There was concern as it indicated sediment is being discharged into the drain during rainfall. It is advised that area around the stormwater grate is cleaned and ways to mitigate sediment infiltration are investigated. This may include the diversion of stormwater away from this area.

The bunding around the truck wash area appeared to be coming loose. However, staff had been advised not to wash in the areas sloped towards the drain to mitigate discharges from the area. All stormwater drains (excluding the storage transfer area) appeared to be free of contaminants. The land by diesel tank showed some riling out from rainfall. The consent holder was advised to address this issue as the area of riling could create a pathway to a nearby stormwater drain. Site was compliant at the time of inspection with the expectation that the two areas of concern noted will being managed or addressed appropriately.

#### 26 November 2021

There were no discharges occurring at the time of the inspection. However, it was noted that the discharge pipe from downstream defender had silt in it and the stormwater drain under roofing was being inundated by sediment. It was suggested that a silt sock, placed in these drains, may help prevent silt entering the water.

There were no visible signs of any sheens or bubbles in any of the drains. Riling of the bank next to diesel tank has been dug out and redirected to prevent the discharge of sediment into the stormwater drain below. No dust was being generated at the time of inspection. However, there had been some complaints about dust discharges off-site. The consent holder recognised that the dust can be an issue on windy days when evaporation rates are high. The consent holder will look at mitigation measures for dust control, including the use of polymers.

#### 8 June 2022

There were no discharges occurring at the time of the inspection and no sheens or bubbles were noted in drains. It was recommended that the courtyard apron silt sock be checked and the area around that drain cleared. No dust generation off site was observed. Although it had been raining in the week prior to the inspection, the yard was in good condition. No other issues were noted.

### 11.2.2 Results of discharge monitoring

The stormwater from the central section of the site combines with the stormwater from the eastern section of the site, after the eastern stormwater has passed through the detention tanks. This combined flow is sampled at site STW002083 (Figure 10).



Figure 10 Symons' stormwater discharge sampling point and downstream site

Samples were collected from the discharge to the Waitaha Stream on one sampling occasion during the monitoring. The results are shown below in Table 26.

Table 26 Symons stormwater sampling results, site STW002083

Parameter	pH	Temperature	Conductivity	Suspended Solids	Oil & Grease	Hydrocarbons			
						C7 - C9	C10 - C14	C15 - C36	Total HC
Units	pH	°C	mS/m	g/m <sup>3</sup>					
25 July 2022*	<b>9.1</b>	11.0	18.1	<b>500</b>	< 6	< 0.10	< 0.2	0.5	< 0.7
<i>Consent limits</i>	6-9	-	-	100	15	-	-	-	-

\* note: the sample collected on 25 July 2022 was a 'catch up' sample

The suspended sediment concentration of 500 g/m<sup>3</sup> was five times greater than the consent limits. The pH was also slightly outside the consent limits but within the margin of error limits of the test. Symons undertook investigation of the system following this (as discussed in section 11.3).

### 11.3 Investigations, interventions, and incidents

Table 27 below sets out details of any incidents recorded, additional investigations, or interventions required by the Council in relation to Symon's activities during the 2021-2022 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 27 Incidents, investigations, and interventions summary

Date	Details	Compliant (Y/N)	Enforcement Action Taken?	Outcome
25 July 2022	Routine sampling found a suspended solids concentration of 500g/m <sup>3</sup>	N	Infringement notice issued	While this infringement notice follows on from an abatement notice issued in August 2020, also for a discharge breach for suspended solids, Council acknowledges that Symons are continuing to work with an external contractor to fix the new sediment treatment system that was incorrectly installed by the previous contractor and address ongoing issues with sediment control

## 11.4 Evaluation of performance

A tabular summary of Symons' compliance record for the year under review is set out in Table 28.

Table 28 Summary of performance for Symons consent 7805-1

<b>Purpose: To discharge of stormwater into the Waitaha Stream</b>		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Adopt best practicable option	Inspection and programme supervision	Yes
2. Catchment not to exceed 3.14 ha	Inspection	Yes
3. Stormwater from Lot 24 DP376382 to be treated	Inspection	Yes
4. Hazardous substance to be stored correctly	Inspection	Yes
5. Discharge parameters not to exceed certain limits	Sampling	<b>No</b> Suspended solids above consent limit
6. Discharge not to give rise to certain effects in receiving waters	Observations at inspection and during sampling	Yes
7. Prepare and maintain a contingency plan	Review of Council records	Yes
8. Prepare and maintain a stormwater monitoring plan	Review of Council records	Yes
9. Notify Council of changes at the site	Observations at inspection and review of Council records	Yes

<b>Purpose: To discharge of stormwater into the Waitaha Stream</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
10. Review and update plans to suit any changes at the site	Observations at inspection and review of Council records. No changes made	Yes
11. Provide Council data on stormwater tank investigations	Investigation is optional and not yet undertaken	N/A
12. Lapse conditions	N/A	N/A
13. Review condition	No further option for review prior to expiry	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent Overall assessment of administrative performance in respect of this consent		<b>Improvement required High</b>

N/A = not applicable or not assessed

During the year, Symons Property Development Ltd demonstrated level of environmental performance that required improvement and a high administrative performance with the resource consent as defined in Appendix II. Elevated concentrations of suspended solids continue to be a problem at the Symons' site. While this may be due to circumstances beyond Symons' control, further investigation into mitigation measures are required to prevent future enforcement action.

## 12 Taranaki Sawmills Ltd

### 12.1 Site description

Taranaki Sawmills Ltd (Taranaki Sawmills) operate a sawmilling and timber processing site situated on the banks of the Waitaha Stream (Photo 5).



Photo 5 Taranaki Sawmills site in the Waitaha Catchment

The majority of the site is gravelled or undeveloped. Stormwater generally soaks to ground; however, overland flow occurs during heavy rain. In heavier flows, stormwater is collected at several points around the operational areas and, until 2017, was discharged to an unnamed tributary of the Waitaha Stream and to the Waitaha Stream itself.

To better manage stormwater at the site, extensive works were undertaken by Taranaki Sawmills in the 2017-2018 period (Figure 11 and Figure 12). This included piping the unnamed tributaries that ran through the site and the construction of a stormwater treatment system. The system includes a pre-treatment pond with a level spreading bar outlet and a larger secondary pond with baffles. The secondary pond discharges to a riser via cantilevered skimmers which in turn discharges to the Waitaha Stream via an outlet structure. A large bund has been constructed between the stormwater treatment ponds and the Waitaha Stream for storage during heavy rainfall events (Figure 13).

Car parks and vehicle working areas are mostly unsealed, so that any fuel leaks or spillages will soak into the ground rather than run into the stormwater system. To reduce yard dust problems, the site is routinely sprayed with water during dry weather.

Taranaki Sawmills holds water discharge permit **2333-4** to cover the discharge of stormwater from a sawmill site into the Waitaha Stream.

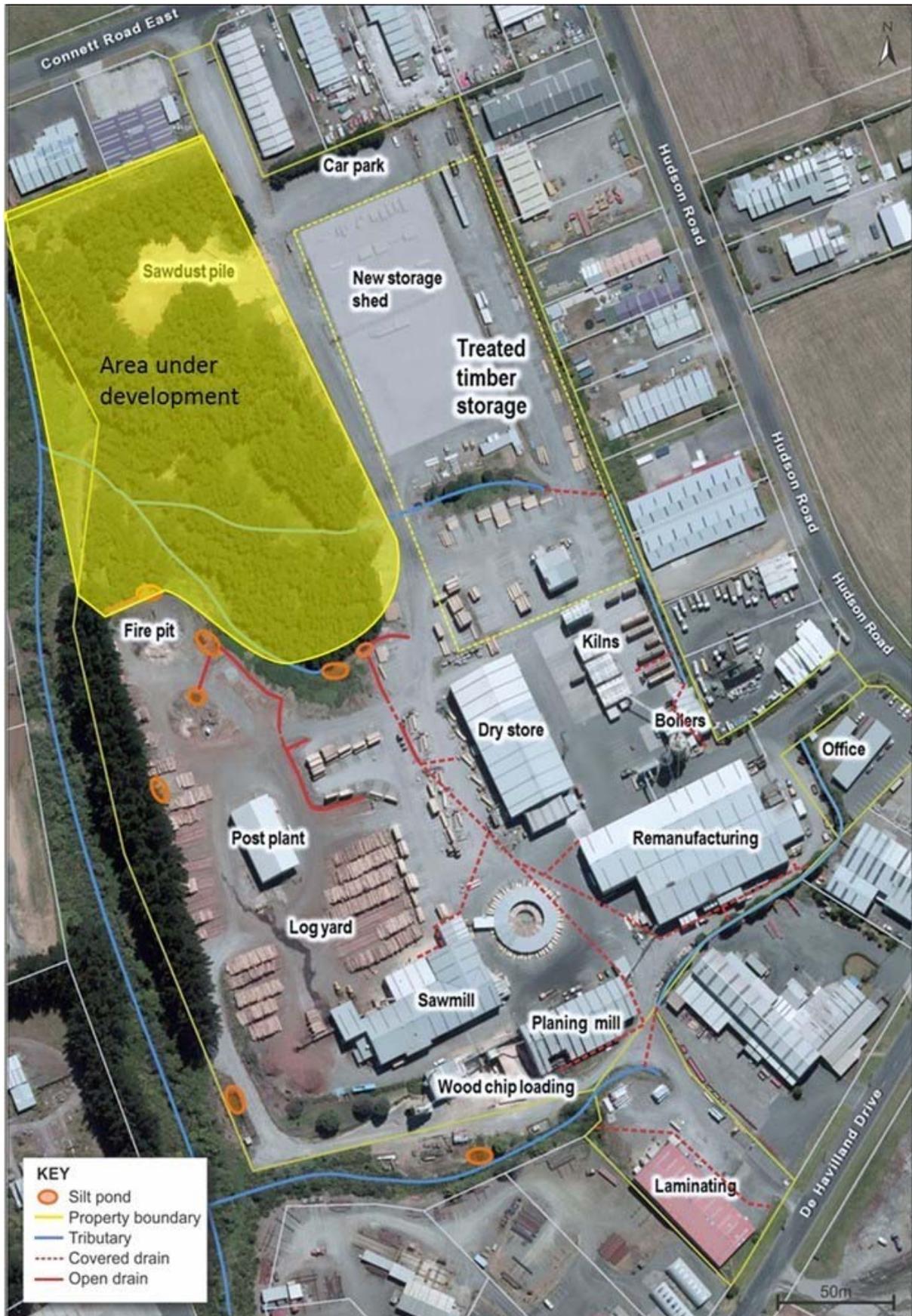


Figure 11 Aerial view of Taranaki Sawmills site with recently developed area in yellow



Figure 12 Aerial view of site development at Taranaki Sawmills, c. 2018



Figure 13 Aerial view of new sediment treatment pond at Taranaki Sawmills

Sawmilling activities at the site generate wood waste. The sawdust, wood shaving, and wood chip components of this waste are reused on site for generating energy for the timber drying kilns. No timber tanalising occurs on site, so no tanalised timber wastes are incinerated. Incineration occurs in either an open fire-pit, or in boilers.

The open fire-pit is approximately 10 m wide x 10 m long x 2 m deep. The material incinerated in the open pit is dried untreated timber off-cuts, and occasionally other non-toxic materials such as paper, cardboard, and timber strapping.

There are boilers operated on the site, which run 24 hours a day, seven days a week, with emissions discharged via stacks. Emissions from the original 2 megawatt (MW) Entec Boiler discharge through a 12 m tall stack, which achieves dust/smoke emissions containing less than 500 mg/m<sup>3</sup> of particulate. The second and third boilers are 4 MW Vekos Boilers, and the single stack for these boilers is 24 m high.

There are a number of potential contaminants which could be discharged into the air from the combustion of wood products. Modelling of the stack emissions undertaken by Taranaki Sawmill's has shown that contaminant concentrations at ground level are well below guideline levels.

The potential contaminant and effects area;

- Visibility and visual/aesthetic impacts
- Nitrogen oxides
- Dust
- Odour
- Sulphur dioxide
- Carbon monoxide (CO)
- Particulates

Taranaki Sawmills holds air discharge permit **4096-2** to cover discharge of emissions into the air from sawmilling and untreated timber processing and associated activities including the combustion of wood and/or coal within boilers and wastes in an open fire-pit.

## 12.2 Inspections

Four 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 11 August and 2 December 2021, and on 7 March and 13 June 2022. A representative of the consent holder was present at all four inspections.

### 11 August 2021

At the time of the inspection, the fire pit was in operation with a small amount of wood being burnt. There was no odour or smoke discharge noted off-site. The kiln condensate area was tidy and appeared to be actively managed. The additional log yard pond appeared to be working well and had 0.5 m freeboard. The discharge from the discharge point was visually clear with no obvious adverse impacts on the downstream environment. It appeared that sediment had flowed overland and discharged to a tributary of the Waitaha Stream at the southern aspect of the site. The consent holder was asked to take measures to prevent the overland flow from happening again.

### 2 December 2021

The fire pit was in operation with a moderate amount of wood being burnt in a well-established fire. There was no unauthorized material noted in the pit. There were no obvious adverse effects from the fire noted off site and no other emissions were being generated on the site. The kiln condensate area continues to be well

managed. However, some debris/saw-dust were starting to accumulate in the drain guards. The retention pond was at a moderate level. The discharge from this pond was clear and there were no visual impact on the stream. The log yard pond was near capacity but was not discharging. The sediment flow to the Waitaha Stream, noted on the last inspection, had been remediated with an earth-bund.

#### 7 March 2022

At the time of inspection, cloth covers were being deployed over the drains and appeared to be in good condition. The fire pit was in operation and was only burning wood. There was no erosion of the bank by the stormwater pond.

#### 13 June 2022

Periods of heavy rainfall had occurred in the days prior to inspection taking place. A small brackish overflow was noted near the collection/bunding area on northern side of the site. The overflow was not discharging to the stream. However, the consent holder was to investigate the source of the overflow. No odours were noted off site. The fire pit was not in operation with wood piled in the pit ready for burning. There was no unauthorised material noted in the pile. The holding ponds appeared to be working as intended.

### 12.2.1 Air inspections

Air inspections were carried out in conjunction with general site inspections. If required, a Dust-Trak dust monitor was used to measure dust, both up and downwind of the site in conjunction with each site visit. Ongoing site improvements included sealing areas of the site to prevent dust generation.

## 12.3 Water

### 12.3.1 Results of discharge monitoring

Prior to October 2018, the stormwater discharged from Taranaki Sawmills was sampled from an unnamed tributary of the Waitaha Stream (WTH000059). The headwaters sampling site (WTH000051) was situated in the middle of the sawmill site and originated from a stormwater drain adjacent to the dry store. This stormwater system was used to drain the sawmill site from between the administration building and the sorting table.

Since October 2018, all stormwater onsite has been directed to various small sediment retention ponds, before flowing to the newly-installed sediment treatment system and discharging directly to the Waitaha Stream. The discharge from the new sediment treatment pond replaces the piped tributary through the site that was previously sampled. A new sampling site, STW002103, has been created to monitor the Taranaki Sawmills treated stormwater discharge (Figure 14). This has replaced the previous site, WTH000059.

The special conditions of resource consent **2333-4** require that the oil and grease and suspended solids concentrations in the discharge must not exceed 15 g/m<sup>3</sup> and 100 g/m<sup>3</sup> respectively, and that the pH shall lie in the range 6.0-9.0. The consent also specifies that BOD in the discharge shall not exceed 10 g/m<sup>3</sup>.

Samples were collected from the discharge to the Waitaha Stream on one occasion during the monitoring period. The results are shown in Table 29.

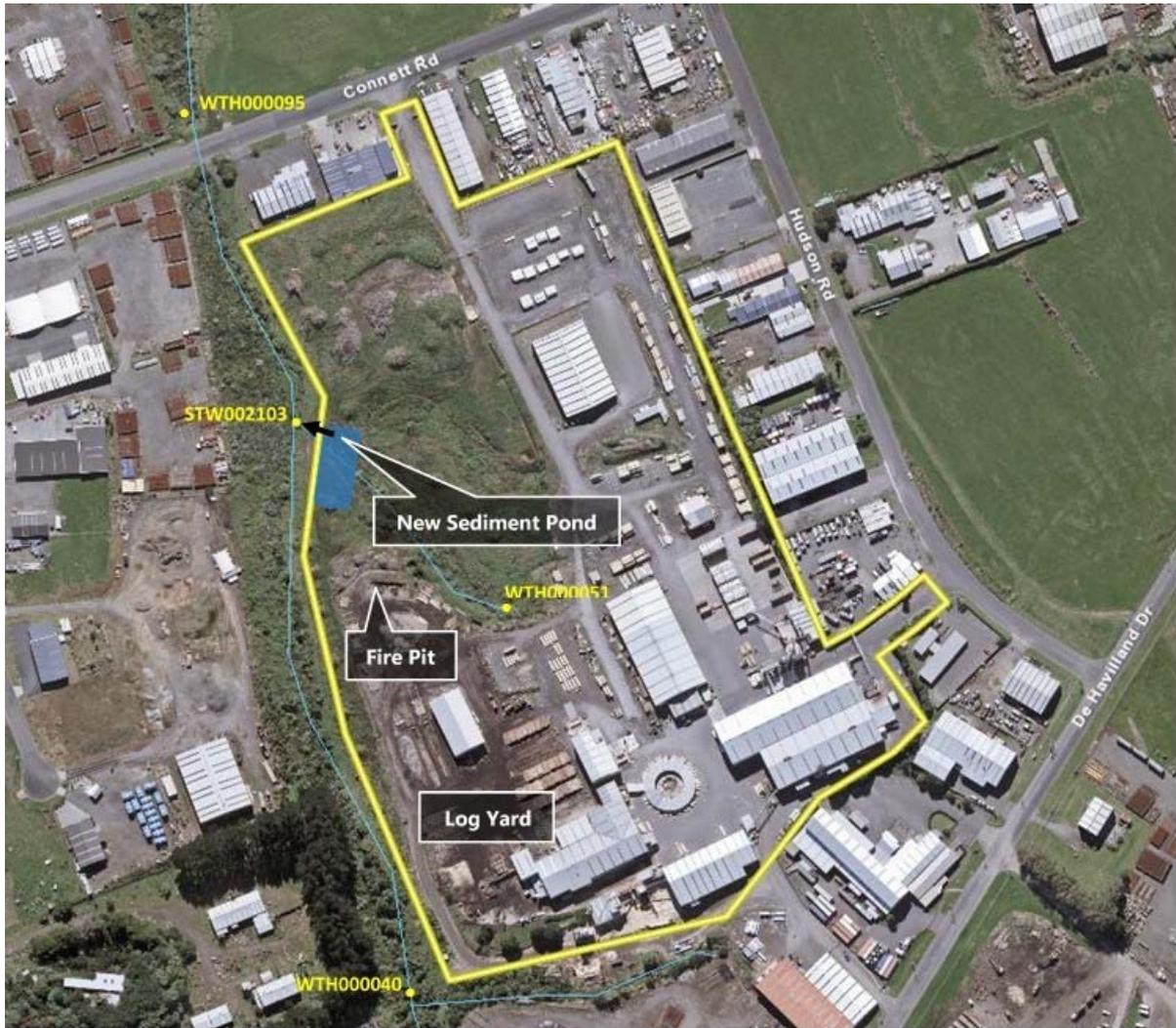


Figure 14 Taranaki Sawmills sampling sites including receiving waters in the Waitaha Stream

Table 29 Taranaki Sawmills stormwater discharge sampling results, site STW002103

Parameter	Unit	25 July 2022*	Consent limits
Temperature	°C	12.0	-
pH	pH	6.9	6-9
Conductivity	mS/m	9.8	-
Suspended solids	g/m <sup>3</sup>	96	100
Turbidity	FNU	193	
CBOD	g O <sub>2</sub> /m <sup>3</sup>	3.5	
TBOD	g O <sub>2</sub> /m <sup>3</sup>	4.7	-
Boron	g/m <sup>3</sup>	0.053	
Copper (acid soluble)	g/m <sup>3</sup>	0.022	-
Copper (dissolved)	g/m <sup>3</sup>	0.0034	-
<b>Hydrocarbons</b>			
C7 - C9	g/m <sup>3</sup>	-	-
C10 - C14	g/m <sup>3</sup>	-	-

Parameter	Unit	25 July 2022*	Consent limits
C15 - C36	g/m <sup>3</sup>	-	-
Total HC	g/m <sup>3</sup>	-	15*

HC used in place of oil & grease

\* note: the sample collected on 25 July 2022 was a 'catch up' sample

In general, the results were within consented limits and historical ranges for the year under review.

## 12.4 Air

### 12.4.1 Results of receiving environment monitoring

Particulates can derive from many sources, including motor vehicles (especially diesels), solid and oil-burning processes for industry and power generation, incineration and waste burning, photochemical processes, and natural sources such as pollen, abrasion and sea spray.

PM<sub>10</sub> particles are linked to adverse health effects that arise primarily from the ability of particles of this size to penetrate the defences of the human body and enter deep into the lungs. Health effects from inhaling PM<sub>10</sub> include increased mortality and the aggravation of existing respiratory and cardiovascular conditions such as asthma and chronic pulmonary diseases.

Taranaki Sawmill's air discharge consent limits the maximum ground level concentration of particulate of effective diameter of less than 10 micron (PM<sub>10</sub>) so that it does not exceed 50 µg/m<sup>3</sup> (one hour average exposure), on more than five occasions per year cumulative across any and all monitoring sites, and does not exceed 120 µg/m<sup>3</sup> (one hour average exposure) at any time, at or beyond the boundary of the site.

In addition to this, in September 2004 the Ministry for the Environment introduced National Environmental Standards (NES) relating to certain air pollutants. The NES for PM<sub>10</sub> is 50 µg/m<sup>3</sup> (24-hour average). This standard must also be met irrespective of any conditions on the consent holder.

Usually a "DustTrak" PM<sub>10</sub> monitor would be deployed on one occasion in the vicinity of the Taranaki Sawmills site during the monitoring period under review. The deployment would last approximately 48 hours, with the instrument placed in a downwind position at the start of the deployment. Monitoring would comprise continual measurements of PM<sub>10</sub> concentrations. However, during the monitoring period under review the DustTrak PM<sub>10</sub> monitoring equipment was not deployed and the impacts on air quality were not able to be evaluated.

## 12.5 Investigations, interventions, and incidents

In the 2021-2022 period, the Council was not required to undertake significant additional investigations and interventions, or record incidents, in association with Taranaki Sawmill's conditions in resource consents or provisions in Regional Plans.

## 12.6 Evaluation of performance

A tabular summary of Taranaki Sawmills' compliance record for the year under review is set out in Table 30 and Table 31.

Table 30 Summary of performance for Taranaki Sawmills Ltd consent 2333-4

<b>Purpose: To discharge of stormwater from a sawmill site into the Waitaha Stream</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Adoption of best practicable option to minimise adverse effects on the environment	Inspection and discussion with consent holder	Yes
2. Limit on catchment size	Inspection	Yes
3. Limits on chemical composition of discharge	Chemical sampling of discharges	Yes
4. Limit of effects on receiving waters	Inspection and sampling	Yes
5. Contingency planning	Current as of January 2018	Yes
6. Maintain and adhere to a stormwater management plan	Updated plan received November 2018.	Yes
7. Notifications of changes in processes	Inspection and liaison with consent holder	Yes
8. Review condition	Next optional review in June 2026	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>High</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

N/A = not applicable or not assessed

Table 31 Summary of performance for Taranaki Sawmills Ltd consent 4096-2

<b>Purpose: Discharge of emissions into the air from sawmilling and untreated timber processing and associated activities including the combustion of wood and/or coal within boilers and wastes in an open firepit</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Adoption of best practicable option to minimise adverse effects on the environment	Inspection and discussion with consent holder	Yes
2. Minimisation of emissions due to control of plant and processes	Inspection and discussion with consent holder	Yes
3. Exercised in accordance with application	Inspection and discussion with consent holder	Yes
4. Boiler and stack operated in accordance with application	Inspection and discussion with consent holder	Yes

<b>Purpose: Discharge of emissions into the air from sawmilling and untreated timber processing and associated activities including the combustion of wood and/or coal within boilers and wastes in an open firepit</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
5. Consultation prior to alterations to plant and processes	Inspection and discussion with consent holder	Yes
6. Notification in the event of coal usage for more than 72 hours in 14 days	No notifications received	N/A
7. Records of coal usage	No notifications received	N/A
8. Preparation and adherence to management plan	Observation at inspection	Yes
9. Level of environmental performance for fire-pit to be commensurate with management plan	Observation at inspection	Yes
10. Notification in the event of an incident having offsite effects	Observation of the surrounding area on inspection or when in the area on other business; any complaints received by Council	Yes
11. Adverse ecological effects in Taranaki from discharge not permitted	Observation of the surrounding area on inspection or when in the area on other business; any complaints received by Council	Yes
12. Objectionable odour at boundary not permitted	Observation of the surrounding area on inspection or when in the area on other business; any complaints received by Council	Yes
13. Definition of factors constituting an objectionable odour	N/A	N/A
14. Limits on objectionable suspended or deposited dust	Observation and/or ambient suspended particulate monitoring at inspection	Yes
15. Limit for ground level ambient concentration of sulphur dioxide	Not measured during the year under review. Only applicable when coal is used in the boilers	N/A
16. Limit for ground level ambient concentration of suspended particulate matter <10 microns	Two day deployment of 'Dust Trak' PM <sub>10</sub> monitor	N/A
17. Noxious or toxic discharges not permitted at boundary	Observation of the surrounding area on inspection or when in the area on other business; any complaints received by Council	Yes
18. Limit on duration of emission of dark smoke	Observation of the surrounding area on inspection or when in the area on other business; review of any complaints received by Council	Yes
19. Minimum height of discharge	Observation during inspection. No decrease in stack height	Yes
20. Lapsing of consent	Consent exercised	N/A

<b>Purpose: Discharge of emissions into the air from sawmilling and untreated timber processing and associated activities including the combustion of wood and/or coal within boilers and wastes in an open firepit</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
21. Optional review provision re environmental effects	Next optional review in June 2026	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>High</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

N/A = not applicable or not assessed

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

## 13 Woodward's 2008 Ltd

### 13.1 Site description

Woodwards 2008 Ltd (Woodwards) operates a firewood business which generates wood waste such as sawdust, bark and offcuts. These are burnt in a fire pit on the site for which a consent was required.

The site is located at 124 De Havilland Drive, Bell Block; approximately 6.5 km east of New Plymouth city centre (Figure 15). The surrounding land use is predominantly industrial or trade premises; there is also pasture bordering the site to the east which is currently used for grazing livestock.

An open fire-pit is located at the eastern side of the site approximately 75 m south of De Havilland Drive. Industrial premises are currently located to the north, west and south of the property. The closest industrial premises are approximately 115 m north of the fire pit across De Havilland Drive.

The Waitaha Stream flows through a pipe underneath the site and resurfaces on the northern side of De Havilland Drive.



Figure 15 Aerial view of Woodward's site and fire pit location

Woodwards generates wood wastes which include timber blocks, bark and sawdust. They aim to burn the wood wastes daily, as it is generated, to prevent the waste from becoming saturated, which would make the potential for offsite effects harder to manage. The effects are managed by taking into account wind direction and strength, and by also taking into account the amount of material within the pit before it is lit.

The material incinerated in the open-pit is untreated timber off-cuts/sawdust. No tanned timber wastes or plastics are incinerated.

There are a number of potential contaminants that are discharged into the air from the combustion of wood products, however in this case these are primarily:

- particulates
- odour and dust
- carbon monoxide

Woodwards holds air discharge permit **7881-1** to cover discharge of emissions into the air from the combustion of untreated timber wastes.

## 13.2 Results

### 13.2.1 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 23 July 2021, and 18 May 2022.

#### 23 July 2021

The site visited during fine weather, however, there was some rainfall prior to the inspection taking place. The oil containers, which were identified as being an issue in the previous inspection, were in the process of being tidied up and removed. The burn pile was overgrown with grass as it has not been used for an extended period of time. The boiler was not in use at the time of inspection. There was a low level of kiln condensate in the catchment bin, however, there was evidence that the bin had overflowed. There were a number of puddles around the site that were discoloured and had a sheen. This is mostly likely caused by wood tannins and natural organic hydrocarbons and was not considered an environmental issue of concern.

#### 18 May 2022

An inspection was conducted during a period of fine weather, however, there was heavy rain the day before inspection. The kiln was not in operation and no wood waste was being burnt during the inspection. It was noted that the kiln condensate catchment bin was broken and needed replacing. There were a number of large puddles around site due to the inclement weather. However, the puddles were clear in colour and did not have any sheen. The used oil containers were still in the process of being removed. There were two large oil containers with oil visible externally. However, there was no oil noted in the surrounding area. The consent holder was advised that these containers should be removed as soon as is practicable.

## 13.3 Investigations, interventions, and incidents

In the 2021-2022 period, the Council was not required to undertake significant additional investigations and interventions, or record incidents, in association with Woodward's conditions in resource consents or provisions in Regional Plans.

## 13.4 Evaluation of performance

A tabular summary of Woodward's compliance record for the year under review is set out in Table 32.

Table 32 Summary of performance for Woodward's consent 7881-1

<b>Purpose: To discharge emissions into the air from the combustion of untreated timber wastes</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
1. Adopt best practicable option. Controls over management practices and consideration of wind conditions	Inspection and discussion with consent holder	Yes
2. Combustion of only untreated wood and wood wastes. Fire pit 20 m from boundary	Inspection and discussion with consent holder. Observation of materials in fire pit	Yes
3. Offensive and objectionable odour at site boundary not permitted	Odour surveys during inspection	Yes
4. Supervision of fire. No fires to be lit after 12 noon	Inspection and observation while council officers in the area	Yes
5. Maximum dust deposition rate of 0.13 / m <sup>2</sup> /day	No visible dust emissions reported at the time of inspection. Deposition rate not measured	N/A
6. Maximum suspended particulates of 3 mg/m <sup>3</sup>	No visible dust emissions reported at the time of inspection	Yes
7. Prohibits noxious and toxic levels of contaminants beyond the boundary	Periodic inspection of log during inspection and review of documentation submitted to Council	Yes
8. Consent lapses if not exercised by 30 Sept 2016	Consent exercised	N/A
9. Optional review provision re environmental effects	No further option for review prior to expiry	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>High</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

N/A = not applicable or not assessed

During the year, Woodward's 2008 Ltd demonstrated a high level of environmental and administrative performance with the resource consent as defined in Appendix II.

## 14 Zelum Ltd

### 14.1 Site description

Zelum Ltd (Zelum), operating internationally as Lonza, manufactures a range of specialised chemical products for the agricultural, horticultural and timber industries at a plant in the Bell Block industrial estate (Photo 6).



Photo 6 Zelum yard storage, November 2019

Zelum manufactures a range of chemicals that include 18 plant protectants and growth promotants, 23 herbicides, seven insecticides, seven additives (surface active agents), four sanitation products, and ten wood protection fungicides. Production is largely by formulation (blending active ingredients and other agents), and the production is based on batch processes (i.e. not continuous).

Three wet scrubbers are the only significant point sources that discharge emissions directly to air (Photo 7).

Zelum holds air discharge permit **4059-5** to cover discharge of emissions into the air from industrial agricultural chemical formulation processes and associated processes.



Photo 7 Zelum scrubber and associated bunding, September 2020

## 14.2 Results

### 14.2.1 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 29 September 2021 and 18 May 2022. A representative of the consent holder was present at all four inspections. Further to these inspections, on 3 June 2022 Zelum submitted data, collected by the company, to the Council for assessment (see Section 14.3 Provision of company data).

#### 29 September 2021

Minimal odour was detected on site and inspections of the eastern, southern and western boundaries did not find any notable odours from onsite activities. Some solvent odour was present on the northern side around the herbicide and insecticide scrubbers. However, the odour was not discharging offsite and there were no negative effects on the receiving environment. The stormwater management network on site appeared to be well maintained. The large number of IBCs onsite were being managed appropriately, with the consent holder noting that some of the containers were due to be removed in the near future.

#### 18 May 2022

During the inspection, there was a slight solvent odour near the storage shed, and herbicide and insecticide shed. However, this dissipated quickly and was not noticeable after moving around ten meters away. No odour was present at either corner of the boundary line. There were a large number of IBCs stored at the far

end of the site. Due to Covid, there had been a delay in removing the IBCs but these were scheduled to be moved shortly.

### 14.2.2 Results of receiving environment monitoring

Prior to site inspections the inspecting officer conducts a survey around the plant perimeter to check for any off-site odours, visible emissions or evidence of effects on the foliage of plants in the vicinity of the site. Mild odours were noted around the site during both inspections, however, the odours were not detected beyond the property boundary.

### 14.3 Provision of company data

Zelam's consent contains requirements for the consent holder to monitor the pH of the forced draft scrubbers on a weekly basis (special condition 8) and free amine concentration of the air displacement scrubber prior to each production run (special condition 10), and to send this information through to the Council in the form of a written report on request.

A report containing this information was requested from Zelam for the monitoring period under review. Zelam provided the weekly pH test results from the force draft scrubber liquor by email to the Council. A review of this data by the Council, found the pH did not meet levels stated in Zelam's consent conditions on five occasions. Consent conditions state the liquor must be maintained at or greater than pH 9.

### 14.4 Investigations, interventions, and incidents

Table 28 below sets out details of any incidents recorded, additional investigations, or interventions required by the Council in relation Zelam's activities during the 2021-2022 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 33 Incidents, investigations, and interventions summary

Date	Details	Compliant (Y/N)	Enforcement Action Taken?	Outcome
10 June 2022	Review of self-monitoring test results found the pH did not meet levels required by consent conditions on five occasions during 2021-2022	N	N	Zelam had already initiated a number better operational practices to help ensure pH levels stay within the range specified in their consent conditions. Therefore, no further action was required by the Council or Zelam.

### 14.5 Evaluation of performance

A tabular summary of Zelam's compliance record for the year under review is set out in Table 34.

Table 34 Summary of performance for Zelam consent 4059-5

Purpose: <i>To discharge emissions into the air from industrial agri-chemical formulation processes</i>		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Minimisation of emissions to air	Inspection and discussion with consent holder	Yes

<b>Purpose: To discharge emissions into the air from industrial agri-chemical formulation processes</b>		
<b>Condition requirement</b>	<b>Means of monitoring during period under review</b>	<b>Compliance achieved?</b>
2. Consultation prior to alterations to plant or processes	Liaison during visits and consultation regarding the installation of a new granulation plant	Yes
3. Objectionable odour at site boundary not permitted	Odour surveys	Yes
4. Maximum concentration of benzyl chloride	Process no longer undertaken	N/A
5. Concentration of discharge of particulate matter	No visible emissions at the time of inspection	Yes
6. Immediate notification in the event of incident affecting off-site location	No incidents reported. No incidents found at inspection. No complaints received	Yes
7. pH of forced draft scrubber liquor	Periodic inspection of log during inspection and review of documentation submitted to Council	Yes
8. Monitoring of forced draft scrubber liquor pH	Review of self-monitoring data submitted by consent holder	<b>No</b> Liquor less than pH 9 on five occasions
9. Free amine concentration of air displacement scrubber liquor	Process not undertaken	N/A
10. Monitoring of air displacement scrubber liquor free amine concentration	Process not undertaken	N/A
11. Maximum ground-level concentrations of contaminants beyond boundary	Not monitored during year under review	N/A
12. Optional review provision re environmental effects	Optional review June 2020, recommendation attached in Section 14.3.6	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		<b>Good</b>
Overall assessment of administrative performance in respect of this consent		<b>High</b>

N/A = not applicable or not assessed

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

## 15 Waitaha Stream

### 15.1 Water quality monitoring

During the monitoring period, a wet weather survey of all site discharges and seven water quality sites in the Waitaha Stream was conducted by the Council (Figure 16).

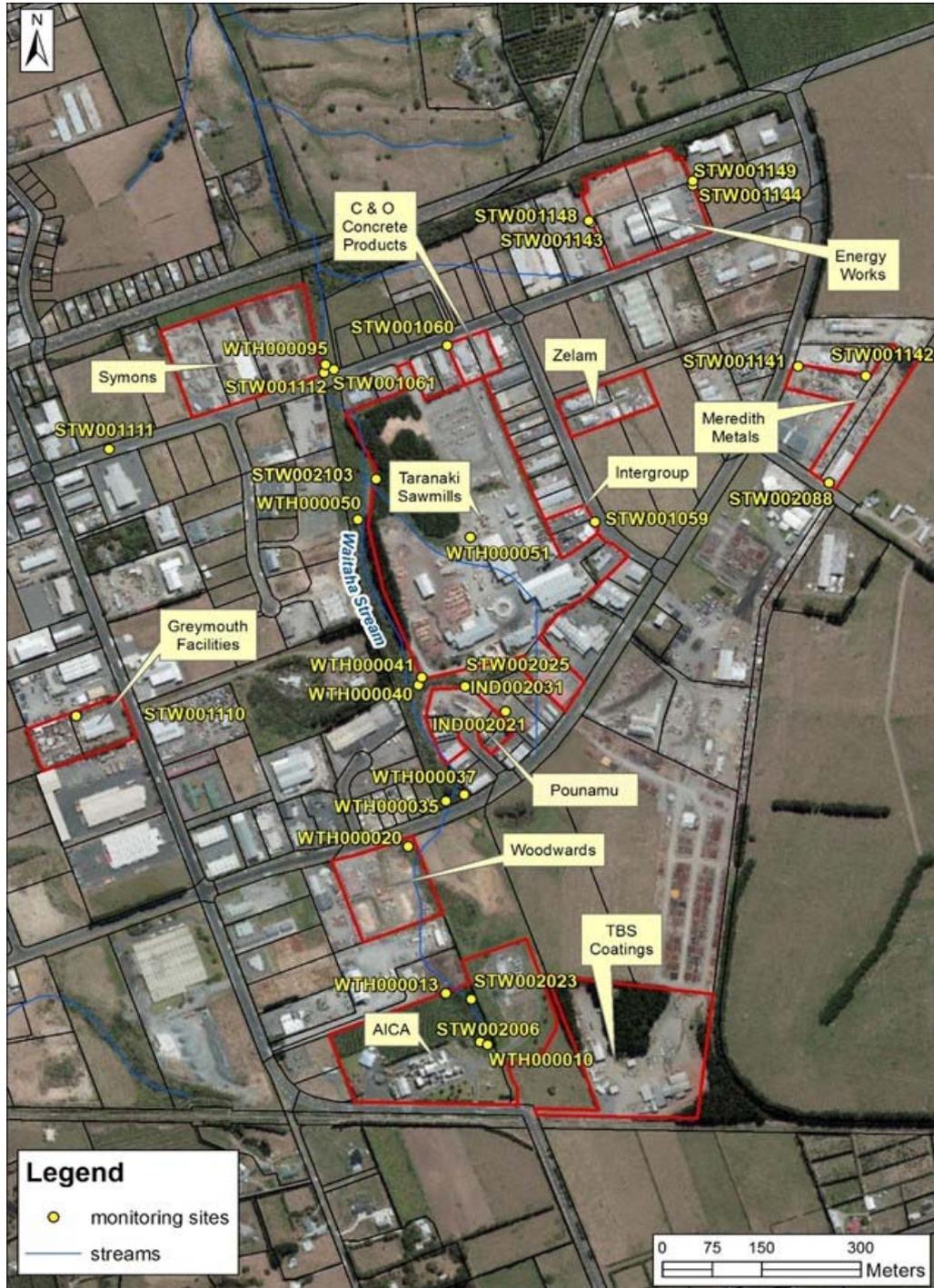


Figure 16 Aerial map showing site and sample locations in the Waitaha Catchment (TBS Coatings now SRG Global)

All samples were tested for pH, temperature, CBOD, conductivity, and turbidity. Further tests for metals, nutrients, formaldehyde, and/or phenol were carried out depending on the expected potential pollutants from industries in the vicinity of the sampling points.

The results of this sampling are presented in Table 35.

Table 35 Waitaha Stream wet weather sampling results, 25 July 2022\*

	Site	WTH000010	WTH000013	WTH000035	WTH000040	WTH000041	WTH000095
Parameter	Description	Waitaha Stream above AICA	Waitaha Stream below AICA	Downstream de Havilland Dr	30 m downstream of unnamed trib	Unnamed trib between Pounamu & TSM	Below Connett Road
Temperature	°C	16.1	14.0	11.6	12.0	13.7	12.4
pH	pH	6.0	6.6	6.8	7.1	6.7	6.9
Boron	g/m <sup>3</sup>	-	-	-	-	-	0.030
Conductivity	mS/m	14.7	13.8	8.4	10.2	18.1	13.2
Formaldehyde	g/m <sup>3</sup>	<0.02	< 0.02	-	-	-	-
Total Phenols	g/m <sup>3</sup>	<0.02	< 0.02	-	-	-	-
Turbidity	FNU	0.34	27	36	130	100	159
CBOD	g O <sub>2</sub> /m <sup>3</sup>	<1.0	< 1.0	6.5	3.9	1.1	1.5
TBOD	g O <sub>2</sub> /m <sup>3</sup>	0.7	0.5	<b>10</b>	4.8	1.8	3.3
<b>Metals (acid soluble)</b>							
Copper	g/m <sup>3</sup>	<0.0005	0.0043	0.0085	0.0192	0.0089	0.021
Lead	g/m <sup>3</sup>	-	-	0.0031	0.0046	-	0.0064
Manganese	g/m <sup>3</sup>	-	-	-	-	-	0.37
<b>Metals (dissolved)</b>							
Copper	g/m <sup>3</sup>	<0.0005	< 0.0005	0.0029	<b>0.0177</b>	0.0010	0.0036
Manganese	g/m <sup>3</sup>	-	-	0.061	0.167	-	0.30
Nickel	g/m <sup>3</sup>	<0.0005	< 0.0005	< 0.0005	0.0015	-	0.0006
Zinc	g/m <sup>3</sup>	-	-	<b>0.21</b>	<b>0.099</b>	0.056	0.054
<b>Nutrients</b>							
NH <sub>3</sub>	g/m <sup>3</sup>	< 0.000010	< 0.000010	0.00054	0.00070	0.00115	0.00050
NH <sub>4</sub>	g/m <sup>3</sup>	< 0.005	0.005	0.40	0.24	0.85	0.28
NNN	g/m <sup>3</sup>	0.90	1.61	-	-	-	0.34
DRP	g/m <sup>3</sup>	< 0.004	< 0.004	0.068	0.013	-	< 0.004
Urea	g/m <sup>3</sup>	< 0.05	< 0.05	-	-	-	-

\* note: the sample collected on 25 July 2022 was a 'catch up' sample

The TBOD level at one mid-catchment site, WTH000035, was twice the threshold (5 g/m<sup>3</sup> BOD) under Rule 23 for a permitted stormwater discharge in the 2001 RFWP. And as noted in previous monitoring reports, turbidity in the stream was elevated in the middle reaches of the stream. This is thought to be a result of new development occurring on De Havilland Drive. Council staff will continue to monitor suspended solids in discharges in the catchment, encourage better silt management by consent holders and also continue to investigate any unauthorised discharges that contribute to sediment loads.

The boron concentration recorded at the downstream site, WTH000095, was lower than the high reliability trigger value of 0.37 g/m<sup>3</sup> given in the Australian and New Zealand Guidelines for Fresh and Marine Water Quality (2000) for slightly-to-moderately disturbed ecosystems. Monitoring also found no significant changes in the pH or temperature of the stream.

Historically the dissolved reactive phosphorus (DRP) concentration has generally been elevated in the upper to middle catchment, reducing at the site below Connett Road. Farming activities above the headwaters of the catchment and the presence of a horticultural supply business upstream of De Havilland Drive were considered the most likely contributors of DRP to the Waitaha Stream. However, no DRP was present in the water samples from the two upper most sites in the catchment, WTH000010 and WTH000013. While samples from two mid-catchment sampling sites, WTH000035 and WTH000040, had levels of DRP which were above the ANZECC trigger value of 0.01 g/m<sup>3</sup> that may cause algal or macrophytic growths. This suggests that activities within the catchment area are contributing to levels of DRP detected in the Waitaha Stream.

During the wet weather surveys, none of the unionised ammonia (NH<sub>3</sub>) results exceeded the 0.025 g/m<sup>3</sup> RFWP guideline value. However, levels of unionised ammonia increased at the mid to lower catchment sampling sites. While there is no consent limit for ammoniacal nitrogen, levels of this variable did increase between the upper sites, and the mid to lower sampling sites. Increases of unionised ammonia and ammoniacal nitrogen may reflect the influence of some consent holder activities on water quality in the Waitaha Stream. The total oxidised nitrogen (NNN) levels at site WTH000013 was at a level which may encourage the growth of nuisance aquatic plants.

There are several guidelines for zinc and copper for assessing water quality in terms of suitability for sustaining aquatic life. The United States Environmental Protection Agency (USEPA), in defining metals criteria for protection of freshwater aquatic life, has adopted the use of dissolved metals as most closely approximating the bioavailable fraction of metal in the water column. Previously, water quality criteria were based on total recoverable metal concentration. Metal monitoring has been recently expanded to new sites to assist in determining potential sources (consented or otherwise) in the Waitaha Catchment.

The water quality criteria for dissolved copper (Cu) and zinc (Zn), with a hardness 50 g/m<sup>3</sup> CaCO<sub>3</sub>, are 0.005 g/m<sup>3</sup> for Cu and 0.058 g/m<sup>3</sup> for Zn respectively as a four day average, for chronic (long term) exposure. The corresponding criteria for acute (four-hour) exposure are 0.007 g/m<sup>3</sup> for Cu and 0.064 g/m<sup>3</sup> for Zn. Only the acute criteria are applicable to wet weather sampling results, whereas both chronic and acute exposure criteria would be applicable to dry weather sampling results.

At the two mid-catchment sites, sample results were above the USEPA acute guideline for zinc and were in keeping with trends shown in historical results. Elevated zinc concentrations are frequently detected throughout the catchment, and in particular in the section between de Havilland Drive and Connett Roads. It is likely that historic activities at sites within this zone have had influence on the levels of metal accumulations within the stream substrate and the surrounding areas. Another potential input is from the breakdown of zinc-coated roofing in the area, as was the case at a Taranaki Sawmills site on Katere Road. Ongoing monitoring for dissolved metals concentrations in discharges off nearby sites has found no evidence of more recent, significant inputs to the Waitaha stream. Dissolved copper at one site in the mid catchment was above the USEPA acute guideline for copper during the monitoring period under review.

The Waitaha Stream has a small catchment area and is coming under increasing pressure from land use activities both upstream and downstream of Devon Road. In order to improve the water quality of the stream, the Council will be focusing on ensuring special conditions on existing consents are adequate; identifying any sites that require discharge consents; and educating site operators in the catchment to ensure that they are aware of their obligations under Rule 23 of the RFWP for permitted stormwater discharges.

## 16 Discussion

### 16.1 Discussion of site performance

A total of 76 observations and actions were made in relation to compliance monitoring for consent holders in the Waitaha Catchment during the monitoring year under review, including:

- 74 routine compliance monitoring inspections
- One advice and information inspection
- One office assessment

One wet weather chemical sampling survey was also undertaken to evaluate the overall impacts of consent holder activities on the water quality in the Waitaha Stream. Four of the routine site inspections and one office based assessment of data by the Council (7%) resulted in non-compliance and further enforcement action.

In general, sites were found to be relatively clean and well-maintained. General housekeeping and maintenance, bunding requirements, 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 promptly, and consent holders undertook upgrades and/or repairs to equipment and plant on each site as required. These works included installation of new sediment treatment systems and upgrades to existing systems, changes to onsite practices, and regular updating of site stormwater management and spill contingency plans.

The site performance for each of the consent holders during the year was of an acceptable standard, and is reflected in the lack of public complaints and incidents recorded for this catchment.

### 16.2 Environmental effects of exercise of consents

Council water quality surveys of the Waitaha Stream 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), suspended sediment, and biological oxygen demand. Of these, unionised ammonia and ammoniacal nitrogen values showed increases between upstream and downstream sites, but were within levels detected historically.

Metals and metalloid concentrations fluctuated throughout the catchment, and in-stream values were closely related to proximity to the source (site stormwater discharges). Both dissolved copper and zinc results for the period under review were elevated above their respective acute USEPA thresholds at two monitoring sites in the mid-catchment of the Waitaha Stream. The Waitaha Stream has a recorded history of metal contaminants, and the concentrations of detected within this monitoring period were within range of historical results.

In general, samples collected from surface water sites did not show any significant visual or chemical effects related to individual site discharges.

### 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 Exercise of option to review consent

A number of resource consents have a provision for an optional review of the consent in June 2023. This allows the Council to review the consent to ensure that the conditions are adequate to deal with any adverse

effects on the environment. These consents (and the respective condition outlining details of the review clause) are listed here:

- Resource consent 9606-2 (Energyworks) under Condition 20;
- Resource consent 9868-1 (Greymouth Facilities) under Condition 15;
- Resource consent 0609-3 (NPDC) under Condition 7; and,
- Resource consent 4056-3 (SRG Global) under Condition 18;

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 for consents 9606-2, 9868-1 and 4056-3. However, recommended that NPDC (consent 0609-3) investigate safe sampling access to site STW001112 or look at replacing the sample site to better meet the conditions of their consent.

## 16.5 Recommendations from the 2020-2021 Annual Report

In the 2020-2021 Annual Report, it was recommended:

1. THAT in the first instance, monitoring of consented activities at AICA Ltd in the 2021-2022 year continue at the same level as in 2020-2021.
2. THAT in the first instance, monitoring of consented activities at C&O Concrete Products Ltd in the 2021-2022 year continue at the same level as in 2020-2021.
3. THAT in the first instance, monitoring of consented activities at Energyworks Ltd in the 2021-2022 year continue at the same level as in 2020-2021.
4. THAT in the first instance, monitoring of consented activities at Greymouth Facilities Ltd in the 2021-2022 year continue at the same level as in 2020-2021.
5. THAT in the first instance, monitoring of consented activities at Intergroup Ltd in the 2021-2022 year continue at the same level as in 2020-2021.
6. THAT in the first instance, monitoring of consented activities at Meredith Metals Ltd in the 2021-2022 year continue at the same level as in 2020-2021.
7. THAT in the first instance, monitoring of consented activities by NPDC in the 2021-2022 year continue at the same level as in 2020-2021.
8. THAT in the first instance, monitoring of consented activities at Pounamu Oilfield Services Ltd in the 2021-2022 year continue at the same level as in 2020-2021.
9. THAT in the first instance, monitoring of consented activities at Symons Property Development Ltd in the 2021-2022 year continue at the same level as in 2020-2021.
10. THAT in the first instance, monitoring of consented activities at Taranaki Sawmills Ltd in the 2021-2022 year continue at the same level as in 2020-2021.
11. THAT in the first instance, monitoring of consented activities at TBS Coatings Ltd in the 2021-2022 year continue at the same level as in 2020-2021
12. THAT in the first instance, monitoring of consented activities at Woodward's 2008 Ltd in the 2021-2022 year continue at the same level as in 2020-2021.
13. THAT in the first instance, monitoring of consented activities at Zelum Ltd in the 2021-2022 year continue at the same level as in 2020-2021.
14. THAT should there be issues with environmental or administrative performance in 2021-2022, monitoring may be adjusted to reflect any additional investigation or intervention as found necessary.

## 16.6 Alterations to monitoring programme for 2022-2023

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

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

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

It is proposed that for 2022-2023 the programme continue at a similar level as that programmed for the 2021-2022 year, with the exception that a new monitoring location is found in place of STW001111 (NPDC consent 0609-3).

## 17 Summary of recommendations

1. THAT in the first instance, monitoring of consented activities at AICA Ltd in the 2022-2023 year continue at the same level as in 2021-2022.
2. THAT in the first instance, monitoring of consented activities at C&O Concrete Products Ltd in the 2022-2023 year continue at the same level as in 2021-2022.
3. THAT in the first instance, monitoring of consented activities at Energyworks Ltd in the 2022-2023 year continue at the same level as in 2021-2022.
4. THAT in the first instance, monitoring of consented activities at Greymouth Facilities Ltd in the 2022-2023 year continue at the same level as in 2021-2022.
5. THAT in the first instance, monitoring of consented activities at Intergroup Ltd in the 2022-2023 year continue at the same level as in 2021-2022.
6. THAT in the first instance, monitoring of consented activities at Meredith Metals Ltd in the 2022-2023 year continue at the same level as in 2021-2022.
7. THAT in the first instance, monitoring of consented activities by NPDC in the 2022-2023 year continue at the same level as in 2021-2022.
8. THAT in the first instance, monitoring of consented activities at Pounamu Oilfield Services Ltd in the 2022-2023 year continue at a similar level as in 2021-2022, with the exception of a reduced site inspection frequency.
9. THAT in the first instance, monitoring of consented activities at SRG Global Asset Services (Taranaki) Ltd in the 2022-2023 year continue at the same level as in 2021-2022.
10. THAT in the first instance, monitoring of consented activities at Symons Property Development Ltd in the 2022-2023 year continue at the same level as in 2021-2022.
11. THAT in the first instance, monitoring of consented activities at Taranaki Sawmills Ltd in 2022-2023 year continue at the same level as in 2021-2022.
12. THAT in the first instance, monitoring of consented activities at Woodward's 2008 Ltd in the 2022-2023 year continue at the same level as in 2021-2022.
13. THAT in the first instance, monitoring of consented activities at Zelum Ltd in the 2022-2023 year continue at the same level as in 2021-2022.
14. THAT should there be issues with environmental or administrative performance in 2022-2023, monitoring may be adjusted to reflect any additional investigation or intervention as found necessary.
15. THAT the option for a review of resource consents 0609-3, 4056-3, and 9868-1 in June 2023, as set out in conditions of the consents, not be exercised, on the grounds that the current conditions are adequate.
16. THAT the option for a review of resource consent 9606-2, as set out in conditions of the consent, be exercised to ensure safe access to all sampling sites.

## Glossary of common terms and abbreviations

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

BOD	Biochemical oxygen demand. A measure of the presence of degradable organic matter, taking into account the biological conversion of ammonia to nitrate.
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.
Conductivity	Conductivity, an indication of the level of dissolved salts in a sample, usually measured at 25°C and expressed in mS/m.
Cu*	Copper.
DRP	Dissolved reactive phosphorus.
FNU	Formazin nephelometric units, a measure of the turbidity of water
g/m <sup>2</sup> /day	grams/metre <sup>2</sup> /day.
g/m <sup>3</sup>	Grams per cubic metre, and equivalent to milligrams per litre (mg/L). In water, this is also equivalent to parts per million (ppm), but the same does not apply to gaseous mixtures.
Incident	An event that is alleged or is found to have occurred that may have actual or potential environmental consequences or may involve non-compliance with a consent or rule in a regional plan. Registration of an incident by the Council does not automatically mean such an outcome had actually occurred.
Investigation	Action taken by Council to establish what were the circumstances/events surrounding an incident including any allegations of an incident.
m <sup>2</sup>	Square Metres.
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).
NH <sub>3</sub>	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).
Pb*	Lead.
pH	A numerical system for measuring acidity in solutions, with 7 as neutral. Numbers lower than 7 are increasingly acidic and higher than 7 are increasingly alkaline. The scale is logarithmic i.e. a change of 1 represents a ten-fold change in strength. For example, a pH of 4 is ten times more acidic than a pH of 5.
Physicochemical	Measurement of both physical properties (e.g. temperature, clarity, density) and chemical determinants (e.g. metals and nutrients) to characterise the state of an environment.
PM <sub>10</sub>	Relatively fine airborne particles (less than 10 micrometre diameter, respectively).

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

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# Appendix I

## Resource consents held by industries in the Waitaha Catchment (alphabetical order)

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

### Water abstraction permits

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

### Water discharge permits

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

### Air discharge permits

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

### Discharges of wastes to land

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

### Land use permits

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

### Coastal permits

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

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

Name of  
Consent Holder: AICA (NZ) Limited  
Private Bag 2055  
New Plymouth 4342

Decision Date  
(Change): 20 September 2017

Commencement Date  
(Change): 20 September 2017 (Granted Date: 24 September 2015)

**Conditions of Consent**

Consent Granted: To discharge stormwater from a chemical manufacturing complex to land via irrigation and into a wetland at the headwaters of the Waitaha Stream

Expiry Date: 1 June 2032

Review Date(s): June 2018, June 2019, June 2020, June 2026 and in accordance with special condition 14

Site Location: 149 Corbett Road, Bell Block

Grid Reference (NZTM) 1701127E-5678004N & 1701107E-5678066N &  
1701133E-5677996N & 1701120E-5678022N &  
1701122E-5678050N & 1701010E-5677850N  
(being discharge points to the Waitaha Stream)  
1701017E-5677999N  
(being the centre of the irrigation discharge area)

Catchment: Waitaha

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

**General condition**

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

**Special conditions**

1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent. Including as a minimum:
  - a) minimising the rate of discharge and concentration of entrained contaminants as far as practical to ensure effects are minimised; and
  - b) the preferential use of land based disposal, where appropriate, to ensure effects on the Waitaha Stream are minimised.
2. The stormwater discharged shall be from an area not exceeding 2.5 Ha.
3. The consent holder shall install flow meters and data loggers capable of measuring, separately, the discharge rates and volumes of stormwater discharged to land via irrigation and to the Waitaha stream. The discharge flow meters and data loggers shall be tamper-proof and shall measure and record the rate and volume of water discharge to an accuracy of  $\pm 5\%$ . Records of the date, the time and the rate and volume of water shall be taken at intervals not exceeding 15 minutes.
4. Prior to discharge from each stormwater retention pond the stormwater shall be analysed by the consent holder for:
  - a) pH;
  - b) ammoniacal nitrogen;
  - c) formaldehyde;
  - d) phenol;
  - e) temperature.
5. The constituents of the stormwater irrigated to land or discharged to the stream Waitaha Stream shall meet the standards as per the following table.

<b>Constituent</b>	<b>Discharges to Stream</b>	<b>Irrigation to Land</b>
pH	Within the range 6.0 to 9.0	Within the range 6.0 to 9.0
suspended solids	Concentration not greater than 100 gm <sup>-3</sup>	N/A
oil and grease	Concentration not greater than 15 gm <sup>-3</sup>	Concentration not greater than 25 g/m <sup>3</sup>
formaldehyde	Concentration not greater than 2 gm <sup>-3</sup>	Concentration not greater 10 gm <sup>-3</sup>
phenol	Concentration not greater than 1 gm <sup>-3</sup>	Concentration not greater than 1 gm <sup>-3</sup>
ammoniacal nitrogen	Concentration not greater than 10 gm <sup>-3</sup>	Concentration not greater than 50 gm <sup>-3</sup>

## Consent 2367-3.2

6. Prior to each discharge or irrigation event from either stormwater retention pond, the consent holder shall notify the Taranaki Regional Council and provide the following information:
- which pond is discharging;
  - an estimate of the times that discharges will occur and cease;
  - estimated volume of discharge;
  - discharge method (irrigation or to water);
  - results of analysis required by condition four; and
  - sample identification details.

Notifications shall be made at any time by emailing [worknotification@trc.govt.nz](mailto:worknotification@trc.govt.nz) and shall include in the subject line of the email the consent number and the consent holders' name.

7. Discharges to the Waitaha Stream other than those from a stormwater retention pond shall meet the standards shown in the following table.

<b>Constituent</b>	<b>Standard</b>
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>
formaldehyde	Concentration not greater than 2 gm <sup>-3</sup>
phenol	Concentration not greater than 1 gm <sup>-3</sup>
ammoniacal nitrogen	Concentration not greater than 10 gm <sup>-3</sup>

8. The discharges, either to the stream or to land via irrigation 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 NZTM 1701073E-5678076N (at the site boundary):
- the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials;
  - any conspicuous change in the colour or visual clarity;
  - any emission of objectionable odour;
  - the rendering of fresh water unsuitable for consumption by farm animals;
  - any significant adverse effects on aquatic life;
  - a concentration of unionised ammonia of greater than 0.025 g/m<sup>3</sup>; and
  - a concentration of phenol greater than 0.6 g/m<sup>3</sup>.
9. Discharge to land via irrigation, either by itself or in combination with other discharges (e.g. fertiliser application), shall not give rise to any of the following effects:
- direct surface run-off of irrigated fluid to the Waitaha Stream;
  - ponding within the irrigation area for more than one hour after irrigation ceases;
  - grass burn within the irrigation area;
  - spray drift beyond the property boundary or into the Waitaha Stream;
  - cause the ambient atmospheric concentration of formaldehyde to exceed 0.01 mg/m<sup>3</sup> at the property boundary; and
  - cause the ambient atmospheric concentration of phenol to exceed 0.63 mg/m<sup>3</sup> at the property boundary.

## Consent 2367-3.2

10. The consent holder shall maintain and update a spreadsheet that contains the following data:
- a) results of analysis required by condition four;
  - b) sample identification details;
  - c) the rates and volumes of discharges to the Waitaha Stream; and
  - d) the discharge rate and volumes used for irrigation.

The consent holder shall forward a copy of the spreadsheet to the Chief Executive, Taranaki Regional Council every 3 months, or upon request.

11. 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.
12. By 1 December 2017, 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 minimise effects on the environment and shall include as a minimum:
- a) the details loading and unloading of materials;
  - b) maintenance of conveyance systems;
  - c) general housekeeping;
  - d) minimising the rate of discharge as far as practical to ensure effects are minimised;
  - e) procedures to determine whether to discharge to water, irrigate, or discharge to trade waste;
  - f) procedures or assessing suitability of conditions for irrigation.
  - g) procedures for monitoring irrigation, including ambient air monitoring; and
  - h) procedures for retention and preservation of samples of irrigated fluid with ammoniacal concentrations exceeding 30 g/m<sup>3</sup>.
13. The consent holder shall notify the Chief Executive, Taranaki Regional Council, prior to making any changes to the processes or operations undertaken at the site, or the chemicals used or stored on site that could alter the nature of the discharge. Any such change shall then only occur following receipt of any necessary approval under the Resource Management Act 1991. Notification shall include the consent number, a brief description of the activity consented and an assessment of the environmental effects of any changes, and be emailed to [consents@trc.govt.nz](mailto:consents@trc.govt.nz).

## Consent 2367-3.2

14. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review:
- a) during the month of June 2018, June 2019, June 2020 and/or June 2026;
  - b) within 3 months of receiving a notification under special condition 13 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 and in particular to set a nitrogen land application limit if monitoring indicates that such a limit is warranted to prevent adverse effects.

Signed at Stratford on 20 September 2017

For and on behalf of  
Taranaki Regional Council

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A D McLay  
**Director - Resource Management**



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

Name of  
Consent Holder:           Aica (NZ) Limited  
Private Bag 2055  
New Plymouth 4342

Decision Date:            26 May 2015

Commencement Date:    26 May 2015

**Conditions of Consent**

Consent Granted:        To discharge emissions into the air from the manufacture of formaldehyde solution and urea formaldehyde resin, together with emissions from associated activities at the plant premises

Expiry Date:             1 June 2032

Review Date(s):         June 2020, June 2026 and in accordance with special condition 12

Site Location:            149 Corbett Road, Bell Block

Legal Description:       Lots 2 & 4 DP 41775 (Discharge source & site)

Grid Reference (NZTM)   1701038E-5677959N

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

### General condition

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

### Special conditions

1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent.
2. Any discharge to air from the exercise of this consent shall not give rise to any offensive, objectionable or toxic levels of dust or odour at or beyond the boundary of the property.
3. The total emissions of formaldehyde from either the main stack of the multi-purpose plant or the vent of the formaldehyde absorber tower of the formaldehyde synthesis plant shall not exceed 1.0 kg/hr as formaldehyde.
4. The consent holder shall have emissions tests conducted on discharges from the "formaldehyde absorber tower" to demonstrate compliance with special conditions 3, unless advised by the Chief Executive, Taranaki Regional Council, that the tests are not required due to the clear evidence that no emission is being breached. These tests shall;
  - a) be conducted annually by 1 June each year, and
  - b) comprise not less than three separate samples taken during operating conditions that give rise to maximum emissions from the stack, and
  - c) be reported to the Chief Executive, Taranaki Regional Council, within 20 working days of the samples being taken. The report shall include the results of the tests, the relevant plant operating parameters over the period of each test, all the raw data and all the calculations.
5. The emissions tests referred to in special condition 4 shall be carried out in accordance with USEPA Method 0011, or any other equivalent method subject to the written approval of the Chief Executive, Taranaki Regional Council, and these tests shall be performed by a party independent from the consent holder, appropriately qualified and experienced in such testing to the satisfaction of the Chief Executive, Taranaki Regional Council.
6. The consent holder shall control all emissions of formaldehyde to the atmosphere to ensure that maximum ground level concentration of formaldehyde at any point beyond the site boundary does not exceed 0.10 mg/m<sup>3</sup> (ambient conditions) at any time.
7. The consent holder shall control all emissions of phenol to the atmosphere to ensure that maximum ground level concentration of phenol at any point beyond the site boundary does not exceed 0.63 mg/m<sup>3</sup> (ambient conditions) at any time.
8. The consent holder shall control all emissions of resorcinol to the atmosphere to ensure that maximum ground level concentration of resorcinol at any point beyond the site boundary does not exceed 1.5 mg/m<sup>3</sup> (ambient conditions) at any time.

## Consent 4021-3.0

9. The consent holder shall control all emissions of carbon monoxide, nitrogen dioxide, fine particles (PM10) and sulphur dioxide to the atmosphere from the site, in order that the maximum ground level concentration of any of these contaminants arising from the exercise of this consent measured under ambient conditions does not exceed the relevant ambient air quality standard as set out in the Resource Management (National Environmental Standards for Air Quality Regulations, 2004) at or beyond the boundary of the property on which the site is located.
10. Prior to undertaking any alterations to the plant, processes or operations, which may significantly change the nature or quantity of contaminants emitted to air from the site, the consent holder shall first consult with the Chief Executive, Taranaki Regional Council, and shall obtain any necessary approvals under the Resource Management Act 1991.
11. The consent holder shall provide to the Taranaki Regional Council during June of each year, for the duration of this consent, a report reviewing any technological advances in the reduction or mitigation of emissions, how these might be applicable and/or implemented at the plant, and the costs and benefits of these advances.
12. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review:
  - a) during the month of June 2020 and/or June 2026; and/or
  - b) within 3 months of any consultation under special condition 11 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 26 May 2015

For and on behalf of  
Taranaki Regional Council

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A D McLay  
**Director - Resource Management**



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

Name of  
Consent Holder: C & O Concrete Products Limited  
PO Box 7141  
New Plymouth 4341

Decision Date: 09 December 2014

Commencement Date: 09 December 2014

**Conditions of Consent**

Consent Granted: To discharge stormwater from a concrete products manufacturing premises into the Waitaha Stream

Expiry Date: 01 June 2032

Review Date(s): June 2020, June 2026

Site Location: 194 Connett Road East, Bell Block

Legal Description: Lot 25 DP 12988 (Discharge source)

Grid Reference (NZTM) 1701106E-5679098N (sump)  
1700897E-5679053N (Discharge point in the Waitaha Stream)

Catchment: Waitaha

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

### General condition

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

### Special conditions

1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent.
2. The stormwater discharged shall be from a catchment area not exceeding 0.415 hectares.
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.

<b>Constituent</b>	<b>Standard</b>
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 10 metres downstream of the discharge point, the discharge shall not, either by itself or in combination with other discharges, give rise to any or all of the following effects in the receiving water:
  - a) the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials;
  - b) any conspicuous change in the colour or visual clarity;
  - c) any emission of objectionable odour;
  - d) the rendering of fresh water unsuitable for consumption by farm animals;
  - e) any significant adverse effects on aquatic life.
6. The consent holder shall maintain 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 contingency plan shall be followed in the event of a spill or unauthorised discharge and shall be certified by the Chief Executive, Taranaki Regional Council as being adequate to avoid, remedy or mitigate the environmental effects of such a spillage or discharge.

## Consent 4777-2.0

7. The consent holder shall maintain an up to date stormwater management plan that documents how the site is to be managed to minimise the contaminants that become entrained in the stormwater. This plan shall be followed at all times, shall be certified by the Chief Executive, Taranaki Regional Council, and shall include but not necessarily be limited to:
  - a) the loading and unloading of materials;
  - b) maintenance of conveyance systems;
  - c) general housekeeping;
  - d) management of the interceptor system; and
  - e) names and contact details of relevant staff.

A Stormwater Management Plan template is available in the Environment section of the Taranaki Regional Council's web site [www.trc.govt.nz](http://www.trc.govt.nz).

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. 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](mailto:consents@trc.govt.nz).
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 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 09 December 2014

For and on behalf of  
Taranaki Regional Council

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A D McLay  
**Director - Resource Management**



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

Name of  
Consent Holder: Energyworks Limited  
PO Box 346  
New Plymouth 4340

Decision Date: 11 November 2014

Commencement Date: 11 November 2014

**Conditions of Consent**

Consent Granted: To discharge stormwater via the New Plymouth District Council reticulated stormwater system into an unnamed tributary of the Waitaha Stream

Expiry Date: 01 June 2032

Review Date(s): June 2020, June 2026 and in accordance with special condition 8

Site Location: 231 Connett Road, Bell Block

Legal Description: Lots 79, 81-82 DP 14600 (Discharge source & site)

Grid Reference (NZTM) 1701300E-5679286N & 1701441E-5679341N

Catchment: Waitaha

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

### General condition

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

### Special conditions

1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent.
2. The stormwater discharged shall be from a catchment area not exceeding 2.5 ha.
3. 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>
free chlorine	Concentration not greater than 0.2 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 10 metres downstream of the point where the discharge enters the Waitaha 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 site shall be operated in accordance with the 'Stormwater Management Plan' prepared by the consent holder and approved by the Chief Executive, Taranaki Regional Council, acting in a certification capacity.
6. The consent holder shall maintain and regularly update a 'Contingency Plan' that details measures and procedures that will be undertaken in the event of a spill or an unauthorised discharge. 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.

## Consent 9962-1.0

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 [consents@trc.govt.nz](mailto:consents@trc.govt.nz).
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 11 November 2014

For and on behalf of  
Taranaki Regional Council

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A D McLay  
**Director - Resource Management**



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

Name of  
Consent Holder: Energyworks Limited  
PO Box 346  
New Plymouth 4340

Decision Date 3 September 2020

Commencement Date 3 September 2020

**Conditions of Consent**

Consent Granted: To discharge emissions into the air associated with abrasive blasting operations, spray painting and associated activities at a permanent site at Connett Road East, Bell Block and from mobile operations throughout the Taranaki region, including parts of the coastal marine area

Expiry Date: 1 June 2038

Review Date(s): June 2023 and 3-yearly thereafter

Site Location: 221A Connett Road East, Bell Block & various locations throughout the Taranaki region and the coastal marine area

Grid Reference (NZTM) 1701320E-5679340N (permanent site)

Catchment: Waitaha  
Tasman Sea  
Various locations throughout the Taranaki region

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

### **General condition**

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

### **Special conditions**

1. The conditions of this consent shall apply to the various operations of the consent holder as follows:
  - a. Special Conditions 2-6 apply to all operations.
  - b. Special Conditions 7-9 apply to operations conducted within the permanent facility at Connett Road East, Bell Block.
  - c. Special Conditions 10-19 apply to operations conducted at any other site other than the permanent facility at Connett Road East, Bell Block.
  - d. Special Conditions 20 (review) applies to the consent generally.

### **All operations**

2. The activity shall be undertaken in general accordance with the information provided in the application documentation. In the case of any contradiction between the application and the conditions of this consent, the conditions of this consent shall prevail.
3. The exercise of this consent shall not give rise to any offensive, objectionable, noxious, hazardous or dangerous levels of dust or odour at or beyond the boundary of the property on which the abrasive blasting is occurring.
4. As far as is practicable, work areas and surrounding areas shall be cleared of accumulations of blasting material at the end of each blasting session and by the end of each working day.
5. Blasting media used for dry abrasive blasting shall contain less than 2% by dry weight dust able to pass through a 0.15 mm sieve and sand used for dry abrasive blasting shall contain less than 5% by dry weight free silica.
6. From November 2020 onwards all blasting operations and site management shall be undertaken in accordance with an Air Discharge Management Plan ('the Plan') that has been approved by the Chief Executive, Taranaki Regional Council, acting in a certification capacity. The Plan shall detail procedures and methods that will be used achieve compliance with the conditions of this consent and shall include but not be limited to details of:
  - a. blasting operations;
  - b. screening/containment of offsite blasting;
  - c. monitoring and maintenance of the blasting buildings and air discharge treatment systems;
  - d. handling of potentially hazardous substances;
  - e. recording of maintenance;
  - f. staff training; and
  - g. general housekeeping, site clean-up and yard maintenance.

### **Discharges at the permanent facility at 221A Connett Road East, Bell Block**

7. All abrasive blasting at 221A Connett Road East, Bell Block shall be carried out in an enclosed booth or shed.
8. All emissions at 221A Connett Road East, Bell Block shall be contained and treated prior to discharge from the operations enclosure. All exhaust air ventilated or otherwise emitted from an enclosure shall be treated to a concentration of total particulate matter of less than 125 mg/m<sup>3</sup> (natural temperature & pressure) corrected to dry gas basis, at any time.
9. The dust deposition rate beyond the property boundary of the site at 221A Connett Road East, Bell Block arising from the discharge, shall be less than 0.13 g/m<sup>2</sup>/day.

### **Operations conducted at any site other than the permanent facility**

10. All items or premises to be blasted shall be screened by means of covers, tarpaulins, cladding, or other means, as completely as practicable, to contain dust emissions and depositions and, as far as practicable, avoid any discharge beyond the immediate work area.
11. Where abrasive blasting or surface coating is to take place within 25 metres of the coastal marine area or of a waterbody, the consent holder shall notify the Chief Executive, Taranaki Regional Council, at least two working days before the activity commences. The notice shall include details of: the location, the specific blasting proposed, the screening (required by condition 10 above), dates and times of the discharge. It shall be served by completing and submitting the 'Notification of work' form on the Council's website (<http://bit.ly/TRCWorkNotificationForm>).

For clarity, this consent does not authorise any discharge to water except of contaminants of very small volumes that cannot practicably be contained and which have less than minor adverse environmental effects.

12. There shall be no discharge within 150 metres of:
  - a. any fenced (or otherwise identified) urupa without the written approval of the relevant Iwi; or
  - b. any marae, unless the written approval of the marae Chair has been obtained to allow the discharge at a closer distance; or
  - c. any site of significance to Maori as defined in any Proposed Regional Coastal Plan or any Operative Regional Coastal Plan unless prior approval is obtained from the relevant iwi.
13. This consent shall not be exercised within the Coastal Marine Area between the Waingongoro River and the southern boundary of the Taranaki Region.
14. The suspended particulate matter shall not exceed 3 mg/m<sup>3</sup> (measured under ambient conditions), and the deposition of dust shall not exceed 0.13 g/m<sup>2</sup>/day beyond the property boundary or beyond 50 metres of the discharge when sited on land where the public has free access, whichever is less.
15. All abrasive blasting is to be conducted with taking into account wind direction and wind strength, such that off-site effects are kept to a practicable minimum.

## Consents 9606-2.0 & 10073-2.0

16. The consent holder shall keep a record of abrasive blasting, including, but not limited to the following information:
- Location (property address and map reference);
  - the type of blasting material used;
  - date; and
  - time/duration of work.

The record of mobile shall be made available to the Chief Executive, Taranaki Regional Council on request.

17. Noise generated by blasting within the Coastal Marine Area shall not exceed the following at any point landward of the boundary of the Coastal Marine Area.

Time (any day)	Limit
7am – 7pm	50 dB L <sub>Aeq</sub> (15 mins)
7pm – 10pm	45 dB L <sub>Aeq</sub> (15 mins)
10pm – 7am	40 dB L <sub>Aeq</sub> (15 mins)
10pm to 7am	70 dB L <sub>Amax</sub>

Noise shall be measured in accordance with the *New Zealand Standard NZS 6801:2008 Acoustic – Measurement of Environmental Sound* and assessed in accordance with *New Zealand Standard NZS 6802:2008 Acoustic Environmental Noise*.

18. Any exclusive occupation of the coastal space within 1 km of mean high water springs shall not occur for a period of more than 48 hours.
19. The discharge authorised by this consent is permitted to occur only within areas identified as “Open Coast” within the *Proposed Regional Coastal Plan for Taranaki* (as modified by council decisions, October 2019).

### Review

20. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2023 and 3-yearly thereafter, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 3 September 2020

For and on behalf of  
Taranaki Regional Council

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A D McLay  
Director - Resource Management

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

Name of  
Consent Holder: Greymouth Facilities Limited  
PO Box 3394  
Fitzroy  
New Plymouth 4341

Decision Date  
(Change): 01 August 2014

Commencement Date  
(Change): 01 August 2014 (Granted Date: 08 May 2014)

**Conditions of Consent**

Consent Granted: To discharge untreated stormwater from a yard used for storage and maintenance of hydrocarbon exploration drilling equipment directly onto and into land, and to discharge treated stormwater into the Waitaha Stream via the New Plymouth District Council reticulated stormwater system, from an interceptor

Expiry Date: 01 June 2032

Review Date(s): June 2017, June 2020, June 2023, June 2026, June 2029 and/or within 3 months of receiving a notification under special condition 13

Site Location: 58 Corbett Road, Bell Block

Legal Description: Lots 1 & 2 DP 16891 (Discharge source and site)

Grid Reference (NZTM) 1700523E-5678513N (source)  
1700582E-5678541N (discharge from site)  
1700889E-5679046N (discharge to stream)

Catchment: Waitaha

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

### General condition

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

### Special conditions

1. This consent authorises the discharge of stormwater onto land only when the capacity of the primary discharge pipe to the New Plymouth District Council reticulated stormwater system is exceeded.
2. The consent holder shall record all occasions on which a discharge authorised by condition 1 occurs. These records shall be retained and be made available to the Chief Executive of the Taranaki Regional Council upon request.
3. 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.
4. The stormwater discharged shall be from a catchment area not exceeding 1.065 ha
5. Before 31 October 2014, the interceptor and bunding shall be installed such that stormwater shall be directed for treatment through the interceptor discharge in accordance with the special conditions of this permit.
6. Constituents of the discharge shall meet the standards shown in the following table.

Constituent	Standard
pH	Within the range 6.0 to 9.0
suspended solids	Concentration not greater than 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 New Plymouth District Council reticulated stormwater system at a designated sampling point approved by the Chief Executive, Taranaki Regional Council.

7. For the purpose of assessing compliance with special condition 6 the consent holder shall install and maintain access to the designated sampling point.
8. After allowing for reasonable mixing, within a mixing zone extending 10 metres downstream of the discharge point, the discharge shall not, either by itself or in combination with other discharges, give rise to any or all of the following effects in the receiving water:
  - a) *the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials;*
  - b) *any conspicuous change in the colour or visual clarity;*
  - c) *any emission of objectionable odour;*
  - d) *the rendering of fresh water unsuitable for consumption by farm animals;*
  - e) *any significant adverse effects on aquatic life.*

## Consent 9868-1.1

9. The consent holder shall maintain 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 contingency plan shall be followed in the event of a spill or unauthorised discharge and shall be certified by the Chief Executive, Taranaki Regional Council as being adequate to avoid, remedy or mitigate the environmental effects of such a spillage or discharge.
10. Within three months of the granting of this consent the consent holder shall prepare and maintain a stormwater management plan that documents how the site is to be managed to minimise the contaminants that become entrained in the stormwater. This plan shall be followed at all times, shall be certified by the Chief Executive, Taranaki Regional Council, and 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 structural and procedural controls in place to minimise the concentration of contaminant present in the discharge.
  - e) maintenance and cleaning of the interceptor

A Stormwater Management Plan template is available in the Environment section of the Taranaki Regional Council's web site [www.trc.govt.nz](http://www.trc.govt.nz).

11. The discharge of stormwater either from the interceptor to land, or directly to land, shall not result in the discharge of contaminants beyond the boundary of the site.
12. The concentration of hydrocarbons in the soil shall not exceed the soil acceptance criteria shown in the following table:

<b>Contaminant</b>		<b>Soil acceptance criteria (mg/kg)</b>
<i>Total Petroleum Hydrocarbons</i>	C7-C9	590
	C10-C14	1400
	C15-C36	NA <sup>1</sup>
<i>Monoaromatic Hydrocarbons</i>	Benzene	0.0054
	Toluene	1.0
	Ethylbenzene	1.1
	Xylenes	0.61
<i>Polycyclic Aromatic Hydrocarbons</i>	Naphthalaene	0.043
	Non-carc. (Pyrene)	1.2
	Benzo(a)pyrene	0.85

<sup>1</sup> NA indicates contaminant not limiting as estimated health-based criterion is significantly higher than that likely to be encounter on site

13. 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](mailto:consents@trc.govt.nz).

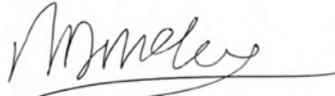
Consent 9868-1.1

14. This consent shall lapse on 30 June 2019, unless the consent is given effect to before the end of that period or the Taranaki Regional Council fixes a longer period pursuant to section 125(1)(b) of the Resource Management Act 1991.
15. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review:
  - a) during the month of in June 2017 and/or June 2020 and/or June 2023 and/or June 2026 and/or June 2029 and/or
  - b) within 3 months of receiving a notification under special condition 13 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 01 August 2014

For and on behalf of  
Taranaki Regional Council



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A D McLay  
**Director - Resource Management**

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

Name of  
Consent Holder: Intergroup Limited  
PO Box 58087  
Botany  
Auckland 2163

Decision Date: 31 March 2016

Commencement Date: 31 March 2016

**Conditions of Consent**

Consent Granted: To discharge treated stormwater from a liquid wastes processing and chemical consolidation facility onto and into land and into the Waitaha Stream via the New Plymouth District Council reticulated stormwater system

Expiry Date: 1 June 2032

Review Date(s): June 2020, June 2026 and/or within 3 months of receiving notification under special condition 8

Site Location: 28 Hudson Road, Bell Block

Grid Reference (NZTM) 1701296E-5678821N

Catchment: Waitaha

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

### General condition

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

### Special conditions

1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent.
2. Before 31 May 2016 all areas of site used for storing unwashed storage vessels shall be bunded such that any stormwater is captured and directed to the site stormwater treatment system.
3. The stormwater discharged shall be from a catchment area not exceeding 0.4 Ha.
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>
total recoverable hydrocarbons	Concentration not greater than 15 gm <sup>-3</sup>

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

5. After allowing for reasonable mixing, within a mixing zone extending 10 metres downstream of the discharge point to the Waitaha 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.
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.

## Consent 4776-2.0

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 a minimum:
  - a) details of unloading of materials to the central trade waste system;
  - b) general housekeeping; and
  - c) management of the stormwater treatment 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. 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](mailto:consents@trc.govt.nz).
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 8 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 2016

For and on behalf of  
Taranaki Regional Council

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A D McLay  
**Director - Resource Management**



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

Name of  
Consent Holder: Meredith Scrap Metals Limited  
7 Catalina Place  
RD 3  
New Plymouth 4373

Decision Date: 10 July 2014

Commencement Date: 10 July 2014

**Conditions of Consent**

Consent Granted: To discharge stormwater from scrap metal storage and processing into the Waitaha Stream and into an unnamed tributary of the Mangaoraka Stream via the New Plymouth District Council reticulated stormwater system

Expiry Date: 01 June 2032

Review Date(s): June 2020, June 2026

Site Location: De Havilland Drive, Bell Block

Legal Description: Lot 1 DP 341109, Lot 2 DP 18719, Lot 2 DP 309386  
(Discharge source & site)

Grid Reference (NZTM) 1701605E-5679056N & 1701708E-5679041N

Catchment: Waitaha  
Waiongana

Tributary: Mangaoraka

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

### General condition

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

### Special conditions

1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent.
2. The stormwater discharged shall be from a catchment area not exceeding 1.7 Hectares.
3. Constituents of the discharge shall meet the standards shown in the following table.

<b>Constituent</b>	<b>Standard</b>
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 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 7 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. Within three months of the granting of this consent the consent holder shall prepare and maintain 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 contingency plan shall be followed in the event of a spill or unauthorised discharge and shall be certified by the Chief Executive, Taranaki Regional Council as being adequate to avoid, remedy or mitigate the environmental effects of such a spillage or discharge.

## Consent 9912-1.0

6. Within three months of the granting of this consent, the consent holder shall prepare and maintain a stormwater management plan that documents how the site is to be managed to minimise the contaminants that become entrained in the stormwater. This plan shall be followed at all times, shall be certified by the Chief Executive, Taranaki Regional Council, and shall include but not necessarily be limited to:
  - a) the loading and unloading of materials;
  - b) general housekeeping; and
  - c) management of the interceptor system.

A Stormwater Management Plan template is available in the Environment section of the Taranaki Regional Council's web site [www.trc.govt.nz](http://www.trc.govt.nz).

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](mailto:consents@trc.govt.nz).
8. This consent shall lapse on 30 September 2019, 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 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 10 July 2014

For and on behalf of  
Taranaki Regional Council

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A D McLay  
**Director - Resource Management**



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

Name of  
Consent Holder: Meredith Scrap Metals Limited  
7 Catalina Place  
RD 3  
New Plymouth 4373

Decision Date: 04 June 2014

Commencement Date: 04 June 2014

**Conditions of Consent**

Consent Granted: To discharge contaminants onto and into land associated  
with scrap metal storage and processing

Expiry Date: 01 June 2032

Review Date(s): June 2020, June 2026

Site Location: 7 Catalina Place, Bell Block

Legal Description: Lot 2 DP 18719 Lot 2 DP 309386 (Discharge source & site)

Grid Reference (NZTM) 1701643E-5679034N

Catchment: Waitaha

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

**General condition**

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

**Special conditions**

1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any actual or likely adverse effect on the environment associated with the discharge of contaminants from the site.
2. The discharge shall not result in any contaminants reaching any adjacent property.
3. The exercise of this consent shall not result in any contaminant concentration within groundwater, which after reasonable mixing, exceeds the background concentration for that particular contaminant.
4. The concentration of heavy metals in any soil shall not exceed the Intervention Values as shown in the following table:

<u>Metal</u>	<u>Intervention Value (mg/kg dry matter)</u>
Antimony	15
Arsenic	55
Barium	625
Cadmium	12
Chromium	380
Cobalt	240
Copper	190
Mercury	10
Lead	530
Molybdenum	200
Nickel	210
Zinc	720

5. The concentration of hydrocarbons in any soil shall not exceed the Soil acceptance criteria shown in the following table:

<u>Contaminant</u>		<u>Soil acceptance criteria (mg/kg)</u>
<i>Total Petroleum Hydrocarbons</i>	C7-C9	590
	C10-C14	1400
	C15-C36	NA <sup>1</sup>
<i>Monoaromatic Hydrocarbons</i>	Benzene	0.0054
	Toluene	1.0
	Ethylbenzene	1.1
	Xylenes	0.61
<i>Polycyclic Aromatic Hydrocarbons</i>	Naphthalaene	0.043
	Non-carc. (Pyrene)	1.2
	Benzo(a)pyrene	0.85

<sup>1</sup> NA indicates contaminant not limiting as estimated health-based criterion is significantly higher than that likely to be encountered on site

## Consent 9911-1.0

- 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](mailto:consents@trc.govt.nz).
- From 1 March 2032 (three months prior to the consent expiry date), constituents in the soil shall not exceed the standards shown in the following table:

<u>Constituent</u>	<u>Standard</u>
Arsenic	20 mg/kg
Cadmium	1 mg/kg
Chromium	600 mg/kg
Copper	100 mg/kg
Lead	300 mg/kg
Mercury	1 mg/kg
Nickel	60 mg/kg
Zinc	300 mg/kg
chloride	700 mg/kg
sodium	460 mg/kg
total soluble salts	2500 mg/kg
MAHs PAHs TPH	Guidelines for Assessing and Managing Petroleum Hydrocarbon Contaminated Sites in New Zealand (Ministry for the Environment, 1999). Tables 4.12 and 4.15, for soil type sand.

MAHs - benzene, toluene, ethylbenzene, xylenes

PAHs - naphthalene, non-carc. (pyrene), benzo(a)pyrene eq.

TPH - total petroleum hydrocarbons (C<sub>7</sub>-C<sub>9</sub>, C<sub>10</sub>-C<sub>14</sub>, C<sub>15</sub>-C<sub>36</sub>)

The requirement to meet these standards shall not apply if, before 1 March 2032, the consent holder applies for a new consent to replace this consent when it expires, and that application is not subsequently withdrawn.

- This consent may not be surrendered at any time until the standards in condition 7 have been met.
- 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 04 June 2014

For and on behalf of  
Taranaki Regional Council

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A D McLay  
Director - Resource Management



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

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

Decision Date:                      22 March 2017

Commencement Date:              22 March 2017

**Conditions of Consent**

Consent Granted:                      To discharge stormwater from industrial land in the Waitaha catchment via multiple outfalls between De Havilland Drive and State Highway 3 into the Waitaha Stream and various unnamed tributaries of the Waitaha Stream

Expiry Date:                          1 June 2032

Review Date(s):                      June 2018, June 2020, June 2023, June 2026, June 2029

Site Location:                          Auster Place, Connett Road East, De Havilland Drive, Hudson Road, and Mustang Drive, Bell Block, New Plymouth

Grid Reference (NZTM)              1700890E-5679047N (discharge reference: 1)  
1700898E-5679053N (discharge reference: 2)  
1701065E-5678369N (discharge reference: 3)  
1700876E-5678493N (discharge reference: A)  
1701020E-5678500N (discharge reference: B)  
1701047E-5678464N (discharge reference: C)  
1701092E-5678383N (discharge reference: D)  
1701190E-5678585N (discharge reference: E)  
1700961E-5679207N (discharge reference: F)

Catchment:                              Waitaha

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

### **General condition**

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

### **Special conditions**

1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent. Including by the appropriate use of planning and regulatory processes to ensure that sites, connecting to the stormwater network use methods of treatment and disposal of stormwater appropriate to the activity being undertaken on the site.
2. The stormwater discharged shall be from a catchment area not exceeding 110 Ha within the area identified in Appendix 1 (attached).
3. After allowing for reasonable mixing, within a mixing zone extending 10 metres downstream of any discharge point, the discharge shall not, either by itself or in combination with other discharges, give rise to any or all of the following effects in the receiving water:
  - a) the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials;
  - b) any conspicuous change in the colour or visual clarity;
  - c) any emission of objectionable odour;
  - d) the rendering of fresh water unsuitable for consumption by farm animals;
  - e) any significant adverse effects on aquatic life.
4. The consent holder shall prevent, where practicable, or mitigate any erosion occurring as a result of the exercise of this consent.
5. The activity authorised by this consent shall not cause any increase in depth or frequency of flooding on downstream or adjacent properties.
6. After a date no later than 1 December 2020 the consent shall be exercised in accordance with a 'Catchment 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 catchment will be managed to ensure that the conditions of this consent are met and include as a minimum:
  - a) A plan of maintenance activities including but not limited to inspections, sump cleaning, and road sweeping.
  - b) A schedule of monitoring and reporting of the increase of semi-pervious and impervious surfacing in the catchment as a result of development.
  - c) Long-term planning to provide for the mitigation of any effects arising from any changes in characteristics of the discharge as a result of development within the catchment. This planning shall include as minimum; the identification of potential procedural, regulatory and/or structural mitigation measures to ensure that the flooding, erosion, and receiving water quality provisions of this consent are met for the duration of this consent.

## Consent 0609-3.0

7. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2018, and/or June 2020, and/or June 2023, and/or June 2026, and/or June 2029, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

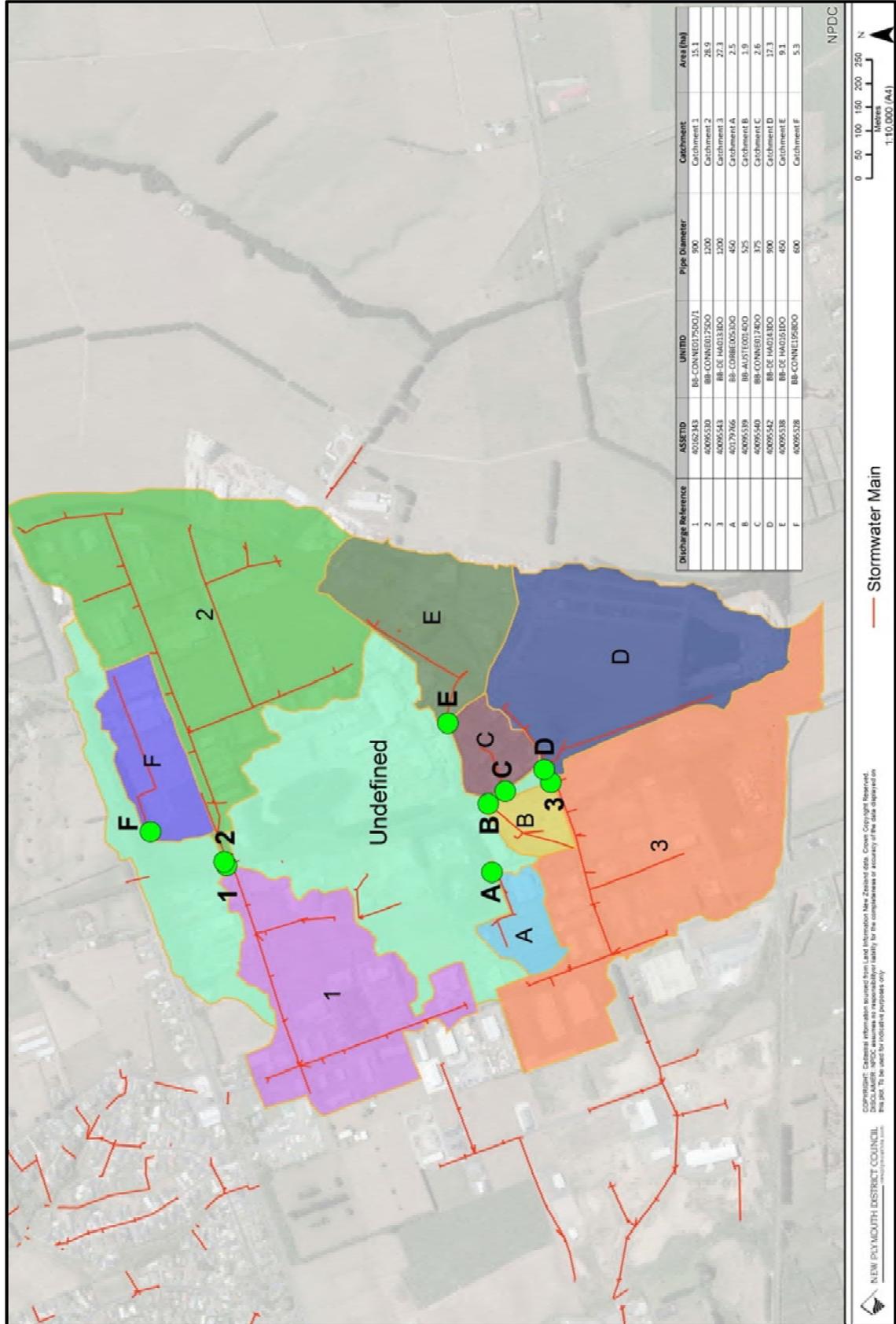
Signed at Stratford on 22 March 2017

For and on behalf of  
Taranaki Regional Council

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B G Chamberlain  
**Chief Executive**

Appendix 1- Map of stormwater catchment



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

Name of  
Consent Holder: Pounamu Oilfield Services Limited  
PO Box 66  
Oakura 4345

Decision Date: 11 July 2016

Commencement Date: 11 July 2016

**Conditions of Consent**

Consent Granted: To discharge treated and untreated stormwater from an oilfield engineering services premises onto land and into an unnamed tributary of the Waitaha Stream and into the Waitaha Stream

Expiry Date: 1 June 2032

Review Date(s): June 2018, June 2020, June 2026 and in accordance with special condition 9

Site Location: 10 Dakota Place, Bell Block

Grid Reference (NZTM) 1701080E-5678556N (discharge point 1)  
1701045E-5678464N (discharge point 2)  
1701161E-5678515N (discharge point 3)

Catchment: Waitaha

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

### General condition

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

### Special conditions

1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent.
2. The stormwater discharged shall be from a catchment area not exceeding 2.267 Ha.
3. All stormwater shall be directed for treatment through a 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.

Constituent	Standard
pH	Within the range 6.0 to 9.0
suspended solids	Concentration not greater than 100 gm <sup>-3</sup>
oil and grease (to water)	Concentration not greater than 15 gm <sup>-3</sup>
oil and grease (to land)	Concentration not greater than 25 gm <sup>-3</sup>
dissolved zinc	Concentration not greater than 0.65 gm <sup>-3</sup>
dissolved nickel	Concentration not greater than 0.1 gm <sup>-3</sup>
dissolved copper	Concentration not greater than 0.05 gm <sup>-3</sup>
acid soluble lead	Concentration not greater than 0.1 gm <sup>-3</sup>

5. After allowing for reasonable mixing, within a mixing zone extending 10 metres downstream of any 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.

## Consent 4775-2.0

7. Within 3 months of this consent being granted the site shall be operated in accordance with a 'Management Plan' and approved by the Chief Executive, Taranaki Regional Council, acting in a certification capacity. The plan shall be updated as required and detail how the site is to be managed to minimise the contaminants that become entrained in the stormwater and ensure compliance with the conditions of this consent. It shall include as a minimum:
- a) the loading and unloading of materials;
  - b) proposed site remediation activities and timelines;
  - c) details, maps, and diagrams of current stormwater treatment measures;
  - d) detailed procedures for managing the lower wash pad interceptor to ensure no discharge of wash water to the Waitaha Stream system occurs; and
  - e) a timeline for the development of an alternative wash water collection/disposal system that meet best practice requirements.
  - f) general housekeeping; and
  - g) details of the inspection and maintenance of stormwater treatment measures.

*Note: A Stormwater Management Plan template is available in the Environment section of the Taranaki Regional Council's web site [www.trc.govt.nz](http://www.trc.govt.nz).*

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 [consents@trc.govt.nz](mailto:consents@trc.govt.nz).
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 and/or June 2020 and/or June 2026.
  - b) within 3 months of receiving a notification under special condition 8 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 13 February 2019

For and on behalf of  
Taranaki Regional Council

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A D McLay  
**Director - Resource Management**



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

Name of  
Consent Holder: SRG Global Asset Services (Taranaki) Ltd  
PO Box 7057  
New Plymouth 4341

Decision Date 11 December 2020

Commencement Date 11 December 2020

**Conditions of Consent**

Consent Granted: To discharge emissions into the air from abrasive blasting operations at a permanent site at Corbett Road, Bell Block, and from mobile operations at various locations throughout the Taranaki region, excluding the Coastal Marine Area

Expiry Date: 1 June 2038

Review Date(s): June 2023, June 2026, June 2029, June 2032, June 2035

Site Location: 161 Corbett Road, Bell Block and various locations throughout the Taranaki region

Grid Reference (NZTM) 1701410E - 5677950N

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

### **General condition**

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

### **Special conditions**

1. The conditions of this consent shall apply to the various operations of the consent as follows:
  - a) Special Conditions 2 - 6 apply to all operations.
  - b) Special Conditions 7 - 10 apply to operations conducted within the permanent facility at 161 Corbett Road, Bell Block.
  - c) Special Conditions 11 - 17 apply to mobile blasting operations.
  - d) Condition 18 applies to the consent generally.

### **All Operations**

2. The activity shall be undertaken in general accordance with the information provided in the application documentation. In the case of any contradiction between the application and the conditions of this consent, the conditions of the consent shall prevail.
3. The exercise of this consent shall not give rise to any offensive, objectionable, noxious, hazardous or dangerous levels of dust or odour beyond the boundary of the property on which the abrasive blasting is occurring.
4. As far as practicable, work areas and surrounding areas shall be cleared of accumulations of blasting material at the end of each blasting session and by the end of each working day.
5. Blasting media used for dry abrasive blasting shall contain less than 2% by dry weight dust able to pass through a 0.15 mm sieve and sand used for dry abrasive blasting shall contain less than 5% by dry weight free silica.
6. From 1 January 2021 onwards, all blasting operations and site management shall be undertaken in accordance with an Air Discharge Management Plan ('the Plan') that has been approved by the Chief Executive, Taranaki Regional Council, acting in a certification capacity. The plan shall detail procedures and methods that will be used to achieve compliance with the conditions of this consent and shall include, but not be limited to, details of:
  - a. Blasting operations;
  - b. Screening/ containment of offsite blasting;
  - c. Monitoring and maintenance of the blasting buildings and air discharge treatment systems;
  - d. Handling of potentially hazardous substances;
  - e. Recording of maintenance;
  - f. Staff training; and
  - g. General house keeping, site clean-up and yard maintenance

**Discharges at the permanent facility at Corbett Road Bell Block**

7. As far as practicable, all abrasive blasting at 161 Corbett Road, Bell Block shall be carried out in an enclosed booth or shed.
8. All emissions at 161 Corbett Road, Bell Block shall be contained and treated prior to discharge from the operations enclosure. All exhaust air ventilated or otherwise emitted from an enclosure shall be treated to concentration of total particulate matter of less than 125 mg/m<sup>3</sup> [natural temperature and pressure] corrected to dry gas basis, at any time.
9. Any items to be blasted at 161 Corbett Road, Bell Block that are too large or otherwise not able to be blasted within the enclosed facility shall be screened by means of covers, tarpaulins, cladding, or other means, as completely as practicable, to contain dust emissions and depositions and, as far as practicable, to avoid any discharge beyond the immediate work area.
10. The dust deposition rate beyond the property boundary of the site at 161 Corbett Road arising from the discharge shall be less than 0.13 g/m<sup>2</sup>/day.

**Operations conducted at any site other than the permanent facility**

11. All items to be blasted shall be screened by means of covers, tarpaulins, cladding or other means, as completely as practicable, to contain dust emissions and depositions and, as far as practicable, avoid any discharge beyond the immediate work area.
12. Where abrasive blasting or surface coating is to take place within 25 metres of a watercourse or the sea, the consent holder shall notify the Chief Executive, Taranaki Regional Council, at least two working days before the activity commences. The notice shall include details of: the location, the specific blasting proposed, the screening (required by condition 11 above), dates and times of the discharge. It shall be served by completing and submitting the 'Notification of work' form on the Council's website (<http://bit.ly/TRCWorkNotificationForm>).

For clarity, this consent does not authorise any discharge to water except of contaminants of very small volumes that cannot practicably be contained and which have less than minor adverse environmental effects.

13. There shall be no discharge within 150 metres of:
  - a. any fenced (or otherwise identified) urupa without the written approval of the relevant Iwi; or
  - b. any marae, unless the written approval of the marae Chair has been obtained to allow the discharge at a closer distance.
14. The suspended particulate matter shall not exceed 3 mg/m<sup>3</sup> [measured under ambient conditions], and the deposition of dust shall not exceed 0.13 g/m<sup>2</sup>/ day beyond the property boundary or beyond 50 metres of the discharge when sited on land where the public has free access, whichever is less.
15. All abrasive blasting is to be conducted with taking into account wind direction and wind strength, such the off- site effects are kept to a practicable minimum.

## Consent 4056-3.0

16. Abrasive blasting within 200 metres of any dwelling house or property boundary may take place only after either public notice or individual notice to all affected owners or occupiers is given.
17. The consent holder shall keep a record of abrasive blasting, including but not limited to the following:
  - a. Location (property address and map reference);
  - b. The type of blasting material used;
  - c. Date; and
  - d. Time/ duration of work

The record of mobile blasting shall be made available to the Chief Executive, Taranaki Regional Council on request.

### Review

18. 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 the review during the month of June 2023, and at 3 yearly intervals thereafter, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 11 December 2020

For and on behalf of  
Taranaki Regional Council



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A D McLay  
**Director - Resource Management**

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

Name of  
Consent Holder: Symons Property Developments Limited  
179 Surrey Hill Road  
R D 4  
NEW PLYMOUTH 4374

Decision Date: 9 May 2011

Commencement  
Date: 9 May 2011

**Conditions of Consent**

Consent Granted: To discharge stormwater from a truck depot and pipe cleaning facility into the Waitaha Stream at or about (NZTM) 1700740E-5678991N and 1700804E-5679014N

Expiry Date: 1 June 2026

Review Date(s): June 2014, June 2020

Site Location: 141 to 145 Connett Road East, Bell Block, New Plymouth

Legal Description: Lot 6 DP 373725 Lot 26 DP 376382 and part of Lot 24 DP 376382 subject to survey [Discharge source & site]

Catchment: Waitaha

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

### General condition

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

### 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 3.14 ha.
3. By 13 May 2011, all stormwater from part of Lot 24 DP 376382, as identified in Appendix I attached to this consent, shall be directed for treatment through the stormwater treatment system for discharge in accordance with the special conditions of this permit.
4. Any significant volumes of hazardous substances [e.g. bulk fuel] on site shall be:
  - a) contained in a double skinned tank, or
  - b) stored in a dedicated bunded area with drainage to sumps, or to other appropriate recovery systems, and not directly to the site stormwater system.
5. 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>
chloride	Concentration not greater than 50 gm <sup>-3</sup>
BOD	Concentration not greater than 5 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.

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

7. The consent holder shall maintain a contingency plan. 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.
8. The consent holder shall 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 systems.

A Stormwater Management Plan template is available in the Environment section of the Taranaki Regional Council's web site [www.trc.govt.nz](http://www.trc.govt.nz).

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 [worknotification@trc.govt.nz](mailto:worknotification@trc.govt.nz).
10. The consent holder shall review the Symons Group Stormwater Management Plan and Symons Spill Contingency Plan prior to making any changes to the processes or operations undertaken at the site and/or on receiving written notice from the Taranaki Regional Council of:
  - the requirement to review the Plans;
  - the matters which shall be addressed within the plan review; and
  - the reasons or anticipated results of the matters requiring review.

The reviewed Plan(s) shall document all operations, maintenance activities, and mitigation and contingency measures and shall be submitted for approval to the Chief Executive, Taranaki Regional Council, acting in a certification capacity, at least two weeks prior to making any changes to the operations on site and/or within one month of receiving written notice of the requirement to review the Plan.

11. The data obtained from any investigations into the effectiveness of the stormwater detention tanks installed at the site is to be made available to the Chief Executive, Taranaki Regional Council upon request.

Consent 7805-1

12. This consent shall lapse on 30 June 2016, unless the consent is given effect to before the end of that period or the Taranaki Regional Council fixes a longer period pursuant to section 125(1)(b) of the Resource Management Act 1991.
13. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review:
  - 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.

Signed at Stratford on 9 May 2011

For and on behalf of  
Taranaki Regional Council

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**Director-Resource Management**

# Appendix I





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

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

Decision Date (Review): 6 August 2020

Commencement Date 6 August 2020 (Granted Date: 8 March 2018)  
(Review):

**Conditions of Consent**

Consent Granted: To discharge stormwater from a sawmill site into the  
Waitaha Stream

Expiry Date: 1 June 2032

Review Date(s): June 2026 and in accordance with special condition 9

Site Location: 32 Hudson Road, Bell Block

Grid Reference (NZTM) 1700934E-5678885N

Catchment: Waitaha

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

### General condition

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

### Special conditions

1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent.
2. The stormwater discharged shall be from a catchment area not exceeding 10.75 Ha.
3. 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>
total recoverable hydrocarbons	Concentration not greater than 15 gm <sup>-3</sup>
biochemical oxygen demand	Concentration not greater than 10 gm <sup>-3</sup>

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

4. From 1 April 2021 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 3 above.
5. After allowing for reasonable mixing, within a mixing zone extending 15 metres downstream of the discharge point, the discharge shall not, either by itself or in combination with other discharges, give rise to any or all of the following effects in the receiving water:
  - a) the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials;
  - b) any conspicuous change in the colour or visual clarity;
  - c) any emission of objectionable odour;
  - d) the rendering of fresh water unsuitable for consumption by farm animals;
  - e) any significant adverse effects on aquatic life.
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.

## Consent 2333-4.4

7. 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 interceptor system.

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

*Note: A Stormwater Management Plan template is available in the Environment section of the Taranaki Regional Council's web site [www.trc.govt.nz](http://www.trc.govt.nz).*

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. 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](mailto:consents@trc.govt.nz).
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;

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

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A D McLay  
**Director - Resource Management**



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

Name of  
Consent Holder: Taranaki Sawmills Limited  
P O Box 7145  
Fitzroy  
NEW PLYMOUTH

Consent Granted  
Date: 27 January 2004

**Conditions of Consent**

Consent Granted: To discharge emissions into the air from sawmilling and untreated timber processing and associated activities including the combustion of wood and/or coal within boilers and wastes in an open firepit at or about GR: Q19:110-405

Expiry Date: 1 June 2032

Review Date(s): June 2008, June 2014, June 2020, June 2026

Site Location: Hudson Road, Bell Block, New Plymouth

Legal Description: Lot 1 DP 13792 Blk II Paritutu SD

Catchment: Waitaha

## Consent 4096-2

### General conditions

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

### Special conditions

1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent.
2. The consent holder shall minimise the emission and effects of contaminants discharged to air from the property, by the selection of the best practicable process equipment, process control equipment, contaminant abatement equipment, and methods of control, supervision and operation, and the proper and effective operation, supervision, control and maintenance of all equipment and processes at all times.
3. The exercise of this consent shall be undertaken generally in accordance with the documentation submitted in support of Application 2797. In the case of any contradiction between the documentation submitted in support of application 2797 and the conditions of this consent, the conditions of this consent shall prevail.
4. The Vekos boiler, stack and associated equipment shall be constructed, operated, and maintained generally as specified in the attachments to application 93/337 lodged with the Taranaki Regional Council on 18 August 1993. In the case of any contradiction between the documentation submitted in support of application 93/337 and the conditions of this consent, the conditions of this consent shall prevail.
5. Prior to undertaking any alterations to the plant, processes or operations, as specified in the application, which may significantly change the nature or quantity of contaminants emitted from the site, the consent holder shall consult with the Chief Executive, Taranaki Regional Council, and shall obtain any necessary approvals under the Resource Management Act 1991 and any amendments.
6. The consent holder shall notify the Chief Executive, Taranaki Regional Council, in writing as soon as is practicable, and in any case within one working day, of any use of coal as a fuel (whether as a sole fuel or blended with other fuels) on the site in the exercise of this consent. This condition applies when the intended or anticipated cumulative duration of the use of coal is more than 72 hours within any 14 day period.
7. The consent holder shall record all use of coal as a fuel, including the rate of consumption and the time and duration, and shall make this information available to the Chief Executive, Taranaki Regional Council, upon reasonable request.

## Consent 4096-2

8. Within three months of the granting of this consent, the consent holder shall prepare and submit to the Chief Executive, Taranaki Regional Council, a management and operations plan for the combustion of wastes in the fire pit on the property. Upon the approval of the Chief Executive, Taranaki Regional Council, the consent holder shall thereafter maintain and comply with the plan. In the case of any contradiction between the plan and the conditions of this consent, the conditions of this consent shall prevail.
9. The plan for the management and operation of combustion of wastes in the firepit shall ensure a level of environmental performance that is to no less a level than that which would be achieved by compliance with the plan submitted in application 2797, and in particular but without exclusion or limitation, section 6.1.4 (B) and Appendix 3 of that application.
10. In the event of any incident having an adverse effect beyond the boundary of the property of the consent holder, the consent holder shall, as immediately as is practicable, notify the Chief Executive, Taranaki Regional Council.
11. The discharges authorised by this consent shall not give rise to any significant adverse ecological effect on any ecosystems in the Taranaki region.
12. The discharges authorized by this consent shall not give rise to an odour at or beyond the boundary of the site that is offensive or objectionable.
13. For the purposes of condition 12, without restriction, an odour shall be deemed to be offensive or objectionable if:
  - a) it is held to be so in the opinion of an enforcement officer of the Taranaki Regional Council, having regard to the duration, frequency, intensity and nature of the odour; and/or
  - b) an officer of the Taranaki Regional Council observes that an odour is noticeable, and either it lasts longer than three (3) hours continuously, or it occurs frequently during a single period of more than six (6) hours; and/or
  - c) no less than three individuals from at least two different properties, each declare in writing that an objectionable or offensive odour was detected beyond the boundary of the site, provided the Council is satisfied that the declarations are not vexatious and that the objectionable or offensive odour was emitted from the site as specified in (b). Each declaration shall include the individuals' names and addresses, the date and time the objectionable or offensive odour was detected, the location of the individual when it was detected and the prevailing weather conditions during the event. The declarations shall be signed and dated.
14. The discharges authorised by this consent shall not give rise to suspended or deposited dust at or beyond the boundary of the site that, in the opinion of at least one enforcement officer of the Taranaki Regional Council, is offensive or objectionable. For the purpose of this condition, ambient levels of dust in excess of the following limits are deemed to be offensive or objectionable:
  - a) dust deposition rate 0.13 g/m<sup>2</sup>/day; and/or
  - b) suspended dust level 1.5 mg/m<sup>3</sup>.
15. The consent holder shall control all emissions of sulphur dioxide to the atmosphere from the site, in order that the maximum ground level concentration of sulphur dioxide arising from the exercise of this consent measured under ambient conditions on land does not exceed 350 micrograms per cubic metre [one-hour average exposure] or 125 micrograms per cubic metre [twenty-four hour average exposure] at or beyond the boundary of the site.

## Consent 4096-2

16. The consent holder shall control all emissions of particulate of effective diameter of less than 10 micrometres (PM10) to the atmosphere from combustion sources, whether alone or in conjunction with any other emissions from the site, in order that the maximum ground level concentration of PM10 arising from the exercise of this consent measured under ambient conditions does not exceed 50 micrograms per cubic metre [one hour average exposure], on more than 5 occasions per year cumulative across any and all monitoring sites, and does not exceed 120 micrograms per cubic metre [one hour average exposure] at any time, at or beyond the boundary of the site.
17. The discharges authorized by this consent shall not give rise to a level of a contaminant or contaminants at or beyond the boundary of the site that is noxious or toxic.
18. There shall be no emissions of dark smoke from the boiler stack(s) for any continuous period of 2 minutes or for more than 4 minutes cumulative in any 60 minute period, except:
  - a) during soot blowing, which may occur up to 4 times per day for a total cumulative duration of 20 minutes in any 24 hour period; and
  - b) during the first 30 minutes following the lighting up of any boiler
19. The minimum height of discharge of products of combustion from the boilers shall be 12 metres above the ground level prevailing at the time of lodging the application for this consent.
20. This consent shall lapse on the expiry of five years after the date of issue of this consent, unless the consent is given effect to before the end of that period or the Taranaki Regional Council fixes a longer period pursuant to section 125(1)(b) of the Resource Management Act 1991.
21. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2008 and/or June 2014 and/or June 2020 and/or June 2026, for the purpose or purposes of:
  - a) ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time; and/or
  - b) to address via a more appropriate condition or conditions any adverse effect on the environment arising from odour emissions or discharges of other contaminants to air; and/or
  - c) to further specify 'best practicable option' in terms of the consent holder's management, supervision, maintenance and/or operation of its processes on the property; and/or
  - d) to specify numerical values for any operating or environmental effects parameter.

Signed at Stratford on 27 January 2004

For and on behalf of  
Taranaki Regional Council

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**Director-Resource Management**

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

Name of  
Consent Holder:           Woodwards 2008 Limited  
                                      P O Box 9036  
                                      NEW PLYMOUTH 4351

Decision Date:             17 August 2011

Commencement  
Date:                         17 August 2011

**Conditions of Consent**

Consent Granted:         To discharge emissions into air from the combustion of  
                                      untreated timber wastes at or about (NZTM)  
                                      1701037E-5678250N

Expiry Date:               1 June 2026

Review Date(s):         June 2014, June 2020

Site Location:            124 De Havilland Drive, Bell Block

Legal Description:        Lot 8 DP 11912 [Discharge site]

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

### General condition

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

### Special conditions

1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent including [but not limited to]:
  - having regard to the prevailing and predicted wind speed and direction at the time of burning in order to minimise offsite effects;
  - allowing the waste material to dry before burning;
  - starting a small fire with the driest material and adding further material once it is blazing, as opposed to igniting a large stack and leaving it unattended.
2. The materials for combustion are restricted to untreated wood and wood wastes; and shall be combusted only when placed in a pit no closer than 20 metres to any boundary.
3. There shall be no objectionable or offensive odour to the extent that it causes an adverse effect at or beyond the boundary of the site.

Note: For the purposes of this condition:

- The site is defined as Lot 8 DP 11912; and
  - Assessment under this condition shall be in accordance with the *Good Practice Guide for Assessing and Managing Odour in New Zealand, Air Quality Report 36, Ministry for the Environment, 2003.*
4. The consent holder, or an authorised agent, shall supervise burning at all times and the fires shall not be lit later than 12 noon on any day.
  5. The dust deposition rate beyond the property boundary arising from the discharge shall be less than 0.13 g/m<sup>2</sup>/day.
  6. Any discharge to air from the site shall not give rise to any offensive, objectionable, noxious or toxic levels of dust at or beyond the boundary of the property, and in any case, suspended particulate matter shall not exceed 3 mg/m<sup>3</sup> [measured under ambient conditions] beyond the boundary of the site.
  7. The discharges authorised by this consent shall not give rise to a level of a contaminant or contaminants at or beyond the boundary of the site that is noxious or toxic.
  8. This consent shall lapse on 30 September 2016, unless the consent is given effect to before the end of that period or the Taranaki Regional Council fixes a longer period pursuant to section 125(1)(b) of the Resource Management Act 1991.

Consent 7881-1

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 17 August 2011

For and on behalf of  
Taranaki Regional Council

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**Director-Resource Management**



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

Name of Consent Holder: Arxada NZ Limited

Decision Date (Change): 1 September 2009

Commencement Date (Change): 1 September 2009 (Granted Date: 20 December 2000)

**Conditions of Consent**

Consent Granted: To discharge emissions into the air from industrial agri-chemical formulation processes and associated processes

Expiry Date: 1 June 2026

Site Location: 13 Hudson Road, Bell Block

Grid Reference (NZTM) 1701317E-5678995N

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

**General conditions**

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

**Special conditions**

**Conditions 1 to 6 [unchanged]**

1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent.
2. Prior to undertaking any alterations to the plant, processes or operations, which may significantly alter the nature or quantity of contaminants emitted from the site, the consent holder shall consult with the Chief Executive, Taranaki Regional Council, and shall obtain any necessary approvals under the Resource Management Act 1991.
3. The discharges authorised by this consent shall not give rise to any offensive or objectionable odour at or beyond the site boundary in the opinion of an enforcement officer of the Taranaki Regional Council.
4. The concentration of benzyl chloride discharge from any vent shall not exceed 1 part per million [vol/vol].
5. The discharge of particulate matter from any vent or source shall not exceed 125 milligrams per cubic metre corrected to 0 degrees Celsius, 1 atmosphere of pressure and a dry gas basis.
6. In the event of any incident arising from the discharge of contaminants to air having an effect beyond the boundary of the site, the consent holder shall contact the Chief Executive, Taranaki Regional Council as soon as is practicable.

**Conditions 7 & 8 [changed]**

7. The consent holder shall maintain the scrubber liquor of the forced draft scrubbers at or greater than pH 9.

## Consent 4059-5

8. The consent holder shall monitor and record the pH of the forced draft scrubber liquors on a weekly basis. The consent holder shall forward this information in the form of a written report to the Chief Executive, Taranaki Regional Council, upon request.

### Conditions 9 & 10 [new]

9. The consent holder shall maintain the excess free amine concentration of the scrubber liquor of the air displacement scrubber at or greater than 0.5%.
10. The consent holder shall monitor and record the excess free amine concentration of the scrubber liquor of the air displacement scrubber prior to each quaternary process run. The consent holder shall forward this information in the form of a written report to the Chief Executive, Taranaki Regional Council, upon request.

### Conditions 11 & 12 [unchanged, formerly conditions 9 & 10]

11. The consent holder shall control all emissions to the atmosphere from the site so that the maximum ground level concentration for any particular contaminant arising from the exercise of this consent measured at or beyond the boundary of the site shall not exceed:
  - a) 1/30<sup>th</sup> of the relevant Occupation Threshold Value Time Weighted Average as defined in the Department of Labour Workplace Exposure Standards and Biological Indices for New Zealand; or
  - b) by more than the Short Term Exposure Limit as defined in the Department of Labour Workplace Exposure Standards and Biological Indices for New Zealand; or
  - c) if no Short Term Exposure Limit is set, more than three times the Time Weighted Average at any time.
12. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 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.

Transferred at Stratford on 16 December 2021

For and on behalf of  
Taranaki Regional Council

  
\_\_\_\_\_  
A D McLay  
Director - Resource Management



## Appendix II

Categories used to evaluate environmental and administrative performance

## Categories used to evaluate environmental and administrative performance

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

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

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

### Environmental Performance

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

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

For example:

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

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

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

### Administrative performance

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

**Good:** Perhaps some administrative requirements of the resource consents were not met at a particular time, however this was addressed without repeated interventions from the Council staff. Alternatively

adequate reason was provided for matters such as the no or late provision of information, interpretation of 'best practical option' for avoiding potential effects, etc.

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

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