

Regional Quarry Compliance Monitoring
Combined Biennial Report
Southern Quarries
2018-2020

Technical Report 2020-05

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Executive summary

This report for the period July 2018 to June 2020 describes the monitoring programme implemented by the Taranaki Regional Council (the Council) to assess the environmental and consent compliance performance of various quarrying operations across Taranaki during the period under review. The report also details the results of the monitoring undertaken and assesses the environmental effects of these activities.

At the end of the period being reported, there were 24 active quarries being monitored by the Council across the region. These quarries held a combined total of 51 resource consents, authorising various combinations of water discharges and abstractions, discharges of cleanfill and stream modifications.

For the purposes of compliance monitoring and reporting, the Council splits quarrying operations into two distinct geographic sub-groups (Northern and Southern). Each monitoring programme is reported on biennially.

The following report details monitoring work carried out in relation to the Southern Quarries, which account for 11 of the region's 24 active quarries, as well as one quarry that was remediated during the monitoring period. This will be the fourth report to incorporate the monitoring results of this group of quarries.

The monitoring programmes for another 12 quarries will be included in a separate biennial report (Northern Quarries compliance monitoring report), which will also cover the period July 2018 to June 2020. Civil Quarries Ltd's Everett Road quarry is reported on separately.

For each quarry, this report describes the monitoring programmes implemented by the Council to assess environmental performance during the period under review, and the results and environmental effects of the quarry's activities.

During the monitoring period:

Bunn Earthmoving Limited, Burgess & Crowley Partnership, CD Boyd, DM & DL Bourke Horizon Trust Limited – Waiteika Road, Ravensdown Windy Point Quarry Limited, RA Wallis Limited – Lower Glenn Road, Taunt Contracting Limited, and Vickers Quarries Limited – York Road all demonstrated an overall high level of environmental performance.

Horizon Trust Management Limited – Rangitatau West Road and Horizon Trust Limited – Whenuku Road both demonstrated an overall good level of environmental performance.

Hey Trust demonstrated an overall level of environmental performance that required improvement.

For reference, in the 2017-2018 year, consent holders were found to achieve a high level of environmental performance and compliance for 76% of the consents monitored through the Taranaki tailored monitoring programmes, while for another 20% of the consents, a good level of environmental performance and compliance was achieved.

For reference, in the 2018-2019 year, consent holders were found to achieve a high level of environmental performance and compliance for 83% of the consents monitored through the Taranaki tailored monitoring programmes, while for another 13% of the consents, a good level of environmental performance and compliance was achieved.

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

This report includes recommendations for the 2020-2022 monitoring period for each consent holder.

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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 the fourth combined biennial report by the Taranaki Regional Council (the Council) for the quarry monitoring programmes in the region. This report covers the period from 1 July 2018 to 30 June 2020, and includes monitoring results for the Southern quarries, which account for 11 of the region's 24 active quarries. One quarry, which was remediated during the monitoring period and is no longer in operation is also included in this report. The monitoring results for the northern quarries for the same monitoring period are contained in a separate biennial report. Civil Quarries Limited's Everett Road Quarry is reported on separately due to its scale and recent monitoring history. This report covers the results and findings of the monitoring programmes implemented by the Council in respect of the resource consents associated with each quarry.

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 quarry consent holders' use of water, land and air.

1.1.2 Structure of this report

Section 1 provides background and general information about compliance monitoring under the RMA, the Council's obligations and general approach to monitoring, and evaluating sites through site specific programmes. It also details the resource consents held by quarry operators in the region and a description of the components of quarry monitoring programmes.

Sections 2-15 of this report presents the monitoring results and evaluates each site in terms of administrative and environmental performance. These sections are presented in a 'report card' style which follows a standard format, as explained below:

1. A brief site description and quarry background is provided.
2. Associated resource consents are listed with basic details including key dates.
3. The monitoring programme components are summarised.
4. The company's environmental performance and administrative compliance is evaluated, including:
 - a. A summary of the company's performance, regarding the site and wider environment.
 - b. If necessary, any incidents, investigations or interventions that occurred during the monitoring period.
 - c. A direct assessment of the company's consent compliance over the monitoring period.
5. Any alterations or recommendations for subsequent monitoring are stipulated.
6. If there are any provisions for consent review, these will be considered.

The following resources are found at the end of this report:

- a glossary of common abbreviations and scientific terms
- a bibliography
- resource consents

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);
- e. risks to the neighbourhood or environment.

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

1.1.4 Evaluation of environmental performance and administrative compliance

Besides discussing the various details of the performance and extent of compliance by the consent holder/s during the period under review, this report also assigns a rating as to each Company's 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 compliance 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.

For reference, in the 2018-2019 year, consent holders were found to achieve a high level of environmental performance and compliance for 83% of the consents monitored through the Taranaki tailored monitoring programmes, while for another 13% of the consents, a good level of environmental performance and compliance was achieved.

In the 2019-2020 year, consent holders were found to achieve a high level of environmental performance and compliance for 83% of the consents monitored through the Taranaki tailored monitoring programmes, while for another 17% of the consents, a good level of environmental performance and compliance was achieved.

1.1.5 Quarrying in Taranaki

Quarry consent holders operate at various locations throughout the region in differing catchments (Tables 1-3, Figure 2). In the past, a large percentage of aggregate production came from river-based sites within Taranaki. The Waiwhakaiho River supplied much of New Plymouth's requirements as far back as the 1950's with the Waitara River, Waiongana River, Kapuni Stream and Waingongoro River also providing a valuable

source of aggregate. The aggregate source within these rivers was often over-utilised. The protective armouring of the boulders and gravel was removed in places, exposing the underlying erodible ash beds and creating deep, narrow channels which moved progressively upstream with no noticeable recovery. This brought about the need for the Shingle Extraction Bylaw introduced in 1974. Aggregate extraction from rivers was then controlled through the issue of permits accompanied by a set of conditions, with the removal of river-based aggregate being restricted to that for river control purposes only.

Historically, land-based sites required steady markets to compete with the easily won river-based extraction operations. However, in the early 1980s, due to the restriction placed on river-based aggregate extraction (and the completion of various major river control programmes and 'Think Big' projects) land-based sites became more widespread (Taranaki Regional Council, 1992).

Currently, there are 24 quarries in the region that are monitored by the Council. These quarries are generally located in a reasonable proximity to urban areas, from which the greatest demand for aggregate stems. Provision of aggregate to meet longer term demand will continue to be dominated by several large quarry operations. Extra demand on alluvial terraces and laharic deposits has occurred due to the controlled river bed extraction. These resources are of good quality and are relatively plentiful, although Taranaki aggregates are known to have a lower crushing strength (85 kN) than aggregates from most other parts of the country. Importation of various aggregates may need to continue to meet the requirement for aggregate types not available in Taranaki.

Quarrying and shingle extraction in Taranaki is covered by the RMA and, if the minerals in question are Crown owned, by the Crown Minerals Act 1991.

Regional councils have no control over the provision of exclusive rights to minerals. However, regional councils do have control over the environmental effects of aggregate extraction from river and lake beds, and land in certain circumstances, and these controls may act as a constraint or limitation on allocation decisions.

Sections 15 and 30 of the RMA give regional councils responsibility for the discharge of contaminants into the environment. Discharges of water into water, contaminants onto or into land that may result in water contamination, and contaminants from industrial premises into air or onto/into land, may not take place unless expressly allowed by a rule in a regional plan, a resource consent, or regulations. Aggregate extraction usually involves washing aggregates, and therefore requires the discharge of wastes. Other discharges, such as emissions to air from crushing and processing plants, disposal of spoil and solid wastes, and discharges of stormwater are also the responsibility of regional councils.

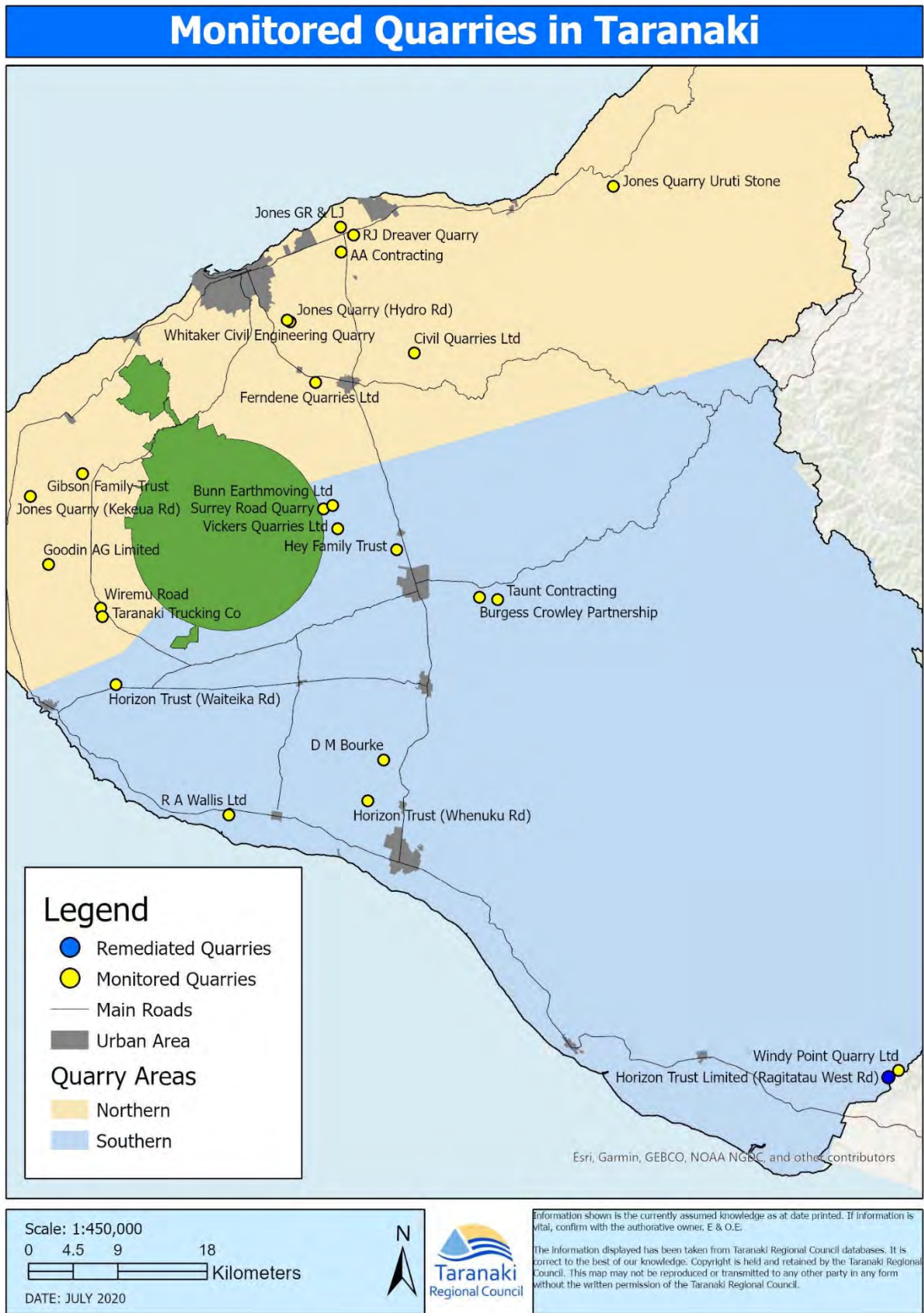


Figure 1 Map showing monitored quarrying locations in Taranaki

1.2 Resource consents

1.2.1 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.

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.

The main potential environment effect on waterways that quarries have is the discharges of stormwater and/or washwater containing high sediment concentrations into surface watercourses. Such discharges can result in discolouration of the waterways and may result in smothering of benthic life forms, form a barrier to fish movement and may affect fish spawning habitats.

All 24 monitored quarries in Taranaki hold resource consents to discharge water.

See tables 1-3 for a summary of the resource consents issued in relation to quarry operations in Taranaki.

1.2.2 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.

There are eight monitored quarries in Taranaki that hold a water abstraction consent. Four of these quarries actively take water for use in quarry operations, the remaining four hold consents to take groundwater incidental to quarrying activity.

1.2.3 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. The Council permits as of right, some discharges to land (for example clean sand or soil or concrete to land, as occurs during re-instatement). Most other discharges require a resource consent.

At the end of the monitoring period seven quarries in Taranaki held cleanfill discharge consents.

1.2.4 Summary of resource consents held for Taranaki quarries

A summary of resource consents held by quarries operating in Northern Taranaki covering the 2018-2020 monitoring period is presented in Table 1.

Table 1 Northern quarries current resource consents

Consent holder	Consent number	Consent type	Next review	Location
AA Contracting	5651-2	D _s , D _w	June 2026	Te Arei Road, Lepperton
Ferndene Quarries Ltd	6453-1	D _s	<i>Expired June 2020 – Section 124 Protection</i>	Upland Road, Tarurutangi
	7089-1.1	D _c	June 2026	
GR and LJ Jones	6274-1	D _s , D _w	<i>Expired June 2020 – Section 124 Protection</i>	Mahoetahi Road, Waitara
	7439-1	D _c	June 2026	
Gibson Family Trust, Puniho Road	9547-1	D _s	<i>Expired 1 June 2020</i>	Puniho Road, Okato
	9547-2 Granted 10/7/2020		June 2025	
Goodin AG Ltd	6585-2	D _s	June 2025	Kahui Road, Rahotu
Jones Quarry Ltd	3888-4	D _s	June 2026	Hydro Road, New Plymouth
	3912-4	D _w	June 2026	
	4912-2	D _c	Expires 1 June 2026	
Jones Quarry Uruti Stone Ltd	5124-2	D _s	<i>Superseded</i>	Main North Road, Uruti
	5124-2.1		June 2021	
	6272-1.1	D _w	Expires 1 June 2021	
	10143-1	SM	June 2021	
	10146-1	T	<i>Superseded</i>	
	10146-1.1		June 2021	
Jones Quarry Limited	10715-1	D _s	Lapse 31 March 2024, Expires 1 June 2037	Kekeua Road, Warea
RJ Dreaver	9526-1	D _s	June 2026	Kairau Road, Brixton

Consent holder	Consent number	Consent type	Next review	Location
	9527-1	D _c	June 2026	
Taranaki Trucking Company Ltd	2293-3.1	T	June 2024	Wiremu Road, Opunake
	2184-3	D _w	June 2024	
Whitaker Civil Engineering Ltd	7236-1	D _s	Expires June 2026	Waiwhakaiho Road, New Plymouth
	0720-4	D _w	Expires June 2026	
	3900-2	D _c	Expires June 2026	
Winstone Aggregates Ltd	1509-4	D _s , D _w	June 2024	Wiremu Road, Opunake
	10583-1	T	June 2024	

KEY: D_s discharge treated stormwater D_w discharge treated wash/wastewater
D_c discharge cleanfill T take water for quarrying purposes SM stream modifications
Note: Bold review dates occur prior to next biennial report (2020-2022)

Civil Quarries Ltd holds the consents listed in Table 2, which are reported on separately due to the size of the monitoring programme.

Table 2 Resource consents held by Civil Quarries Ltd

Consent holder	Consent number	Consent type	Next review	Location
Civil Quarries Ltd	1113-5.1	D _s	June 2021	Everett Road, Inglewood
	10247-1.1	T	June 2021	

KEY: D_s discharge treated stormwater T take water for quarrying purposes

A summary of resource consents held by quarries operating in Southern Taranaki (reported here) covering the 2018-2020 monitoring period is presented in Table 3.

Table 3 Resource consents held by southern Taranaki quarry operators

Consent holder	Consent number	Consent type	Next review	Location
Bunn Earthmoving Ltd	10527-1.0	D _s	1 June 2021	Surrey Road Tariki
Burgess Crowley Partnership	6505-1	D _c	Expires 1 June 2022	East Rd, Stratford
	7963-1	D _s	1 June 2022	
	7964-1.1	IGT	1 June 2022	

Consent holder	Consent number	Consent type	Next review	Location
CD Boyd Surrey Road Quarry	6569-1	D _s , D _w	Expires 1 June 2021	Norfolk Rd, Inglewood
D M Bourke	5001-2	D _s	1 June 2023	Onewhaia Rd, Te Roti
	9933-1	D _G	1 June 2023	
	9934-1	IGT	1 June 2023	
Hey Family Trust Ltd	7123-1	D _s	Expires 1 June 2022	Monmouth Rd, Stratford
Horizon Trust Management Ltd, Rangitatau West Road	9464-1	D _s	1 June 2022	Rangitatau West Road, Maxwell
Horizon Trust Management Ltd, Waiteika Road	7519-1	D _s , D _w	Expires 1 June 2024	Waiteika Rd, Opunake
	7522-1	C	Expires 1 June 2024	
Horizon Trust Management Ltd, Whenuku Road	7845-1.2	D _s , D _G	1 June 2022	Whenuku Rd, Hawera
	10017-1	SM	1 June 2023	
	10018-1	IGT	1 June 2023	
Ravensdown Windy Point Quarry Ltd	9570-1	D _s	1 June 2022	Rangitatau West Rd, Waitotara
	9972-1.2	D _C	1 June 2022	
R A Wallis Ltd, Lower Glenn Road	9600-1	D _s	1 June 2023	Lower Glenn Road, Manaia
	10351-1.0	SM	1 June 2023	
Taunt Contracting	5002-2	D _s , D _w	1 June 2022	Bird Rd, Stratford
Vickers Quarries Ltd, York Road	4905-3.1	D _s , D _G , D _w	1 June 2022	York Road, Midhirst
	5218-2.1	D _s , D _G	1 June 2022	
	7360-1	SM	1 June 2021	
	9850-1	IGT	1 June 2022	
	9812-1.1	SM	1 June 2022	

KEY: D_s discharge treated stormwater D_w discharge treated wash/wastewater D_G discharge treated groundwater
D_C discharge cleanfill T take water IGT incidental groundwater take
SM stream modifications C Culvert

Note: Bold review dates occur prior to the next biennial report (2020-2022)

1.3 Monitoring programme overview

1.3.1 Introduction

Section 35 of the RMA sets out obligations upon the Council to gather information, monitor, and conduct research on the exercise of resource consents, and the effects arising, within the Taranaki region and report upon these.

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 quarries reported here may have consisted of up to four primary components.

1.3.2 Programme liaison and management

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

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

1.3.3 Site inspections

Each quarry is now subject to two physical inspections every monitoring year, with one inspection to occur during the summer months, and the other to occur during wet weather. With regard to consents for the abstraction of or discharge to water, the main points of interest are plant processes with potential or actual discharges to receiving watercourses, including contaminated stormwater and process wastewaters. Air inspections focus on plant processes with associated actual and potential emission sources and characteristics, including potential odour, dust, noxious or offensive emissions. Sources of data being collected by the consent holder are also identified and accessed, so that performance in respect of operation, internal monitoring, and supervision can be reviewed by the Council. The neighbourhood is also surveyed for environmental effects.

1.3.4 Physicochemical sampling

The Council may undertake sampling of site discharges and sampling of the receiving environment where it is warranted. Sampling sites are selected on the basis that they enable an assessment of the effect of any discharges on the receiving environment. The range of parameters that samples are analysed for include conductivity, pH, suspended solids and turbidity. In some instances hydrocarbons may be analysed.

1.3.5 Data review

Some quarries hold resource consents which require them to record and provide the Council with water abstraction data. Council reviews these records to ensure that the required records are being kept and that the abstraction has been managed according to the requirements of the consent.

1.3.6 Biomonitoring surveys

Biological surveys may be performed in tributaries or streams neighbouring the quarry site to determine whether or not any discharges have had a detrimental effect upon the aquatic communities.

1.4 Investigations, interventions, and incidents

Each quarry monitoring programme was based on what was considered to be an appropriate level of monitoring, review of data, and liaison with the consent holder. During the period of monitoring, matters may arise which require additional activity by the Council, for example provision of advice and information, or investigation of potential or actual courses of non-compliance or failure to maintain good practices. A pro-active approach that in the first instance avoids issues occurring is favoured.

The Council operates and maintains a register of all complaints or reported and discovered excursions from acceptable limits and practices, including non-compliance with consents, which may damage the environment. The Incident Register includes events where the Company concerned has itself notified the Council. The register contains details of any investigation and corrective action taken.

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

Unless otherwise stated in the site specific report card section, the Council was not required to undertake significant additional investigations and interventions, or record incidents, in association with conditions in resource consents or provisions in Regional Plans during the 2018-2020 period.

2 Bunn Earthmoving Ltd - Surrey Road Quarry 1st Compliance Monitoring Annual Report 2018-2020

2.1 Introduction

Bunn Earthmoving Ltd (the Company) operates a quarry located on Surrey Road, southwest of Tariki, and approximately 1 km from the boundary of the Egmont National Park (Figure 3). The Mangamawhete Stream runs along the southern and eastern boundaries of the site.

The quarry site is generally flat with a total area of 1.27 ha. The site is used for metal extraction only with no aggregate washing permitted.

The stormwater treatment system consists of a 26 m³ forebay and a 260 m³ main pond. The forebay extends the full width of the main pond, and is 1 m deep. The main pond contains a T-bar decanter system which discharges to the Mangamawhete Stream. The site is bunded and contoured so that runoff is directed to the pond system.

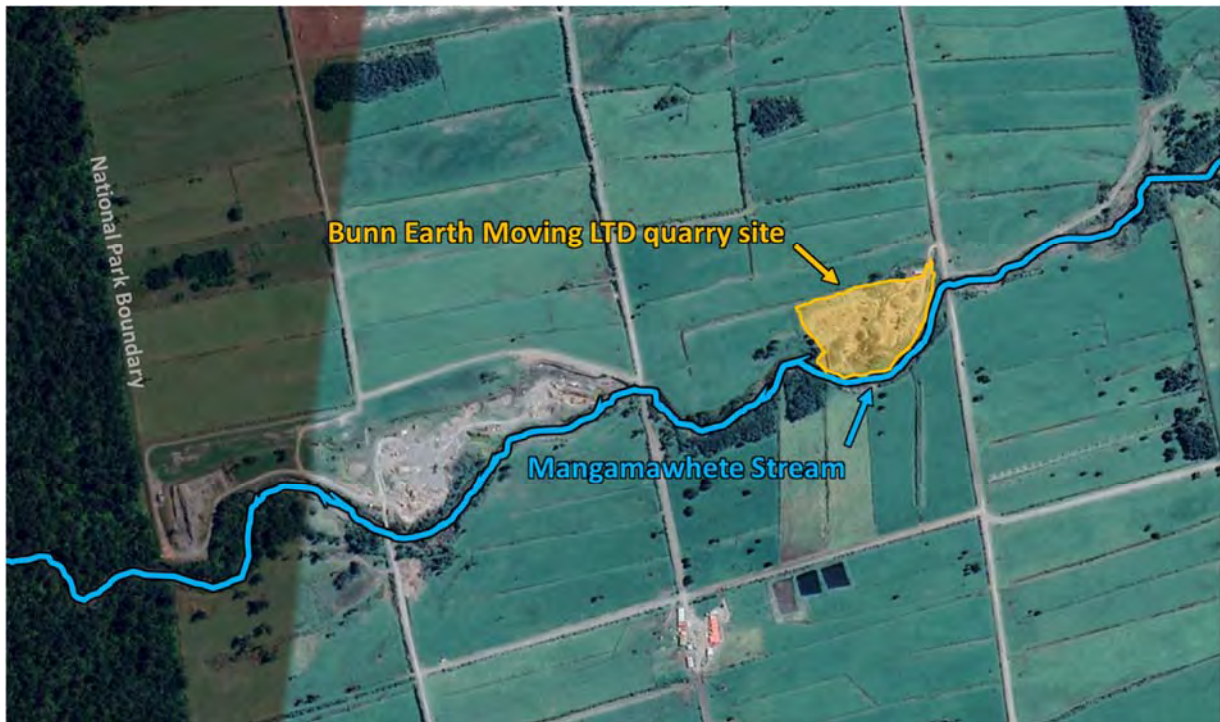


Figure 2 Bunn Earthmoving Ltd quarry site footprint as of 2020 (Google Earth)

2.2 Resource consents

Consent number	Purpose	Granted	Review	Expires
10527-1.0	To discharge treated stormwater from a quarry site, into the Mangamawhete Stream	2 February 2018	June 2021	1 June 2033

Copies of consents are included in Appendix I.

2.3 Compliance monitoring programme

The Bunn Earthmoving Limited monitoring programme includes three components, namely: programme liaison and management with consent holders, site inspections, and chemical sampling when required.

2.4 Environmental and administrative performance summary

Four compliance monitoring inspections were undertaken at the Surrey Road quarry during the 2018-2020 period. The first inspection conducted on 2 April 2019 noted that previous works undertaken to improve site contouring and containment of runoff were maintained and in good condition. All inspections occurred during or after a rain event and all reported that the site handles water well and the treatment system was working effectively. The site was discharging during all inspections with no increase in turbidity observed.



Photo 1 Bunn Earthmoving Ltd Surrey Road quarry site 7 July 2019

During the period under review it was discovered that the Council did not hold a management plan for the sites, as required by consent conditions. A request to submit the outstanding management plan was made on 24 October 2018. There was a significant delay in submission of the plan, with it being received by Council on 15 April 2019. The plan is currently under review.

A tabular summary of the Company's compliance record for the period under review is set out in Table 4.

Table 4 Summary of compliance with consent 10527-1.0 over the 2018-2020 monitoring period

Purpose: To discharge treated stormwater from a quarry site, into the Mangamawhete Stream		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Operate quarry in accordance with consent conditions	Site inspections	Yes
2. Discharge from aggregate-washing not permitted	Site inspections	Yes

Purpose: To discharge treated stormwater from a quarry site, into the Mangamawhete Stream		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
3. Stormwater treatment system to be constructed according plan	Site inspections	Yes
4. Site management plan requirement	Site management plan received 15 April 2019 In review	Yes
5. Adopt best practicable option to prevent or minimise adverse environmental effects	Site inspections	Yes
6. Progressive reinstatement of quarry site to minimise exposed earth	Site inspections	Yes
7. Maximum stormwater catchment and area exposed	Site inspections	Yes
8. Constituents of the discharge shall meet the consented limits prior to entry into the receiving waters	Site inspections - No samples taken	Yes
9. The discharge shall not give rise to physical or chemical changes in the receiving waters	Site inspections – No samples taken	Yes
10. Limits on turbidity increase of receiving waters	Site inspections – No samples taken	Yes
11. Provide, maintain, and regularly update a contingency plan	Contingency plan in review	Yes
12. Notification requirement prior to changes in operation or chemical use or storage	Site inspections and consent holder liaison	Yes
13. Consent lapse clause	Resource consent has been given effect	N/A
14. Review clause	Next optional review June 2021	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High Improvement required
Overall assessment of administrative performance in respect of this consent		

The Company received a rating of high for consent compliance for the 2018-2020 monitoring period. Improvement is required in the Company's administrative performance given the delays in submitting the management plan for the site when requested by Council.

2.5 Alterations and recommendations for 2020-2022

It is recommended that monitoring of the Bunn Earthmoving Ltd Surrey Road site in the 2020-2022 period consist of two inspections per year (one to occur during the summer months, and the other to occur during wet weather), with discharge samples to be collected if warranted.

3 Burgess & Crowley Partnership – East Road 14th Compliance Monitoring Annual Report 2018-2020

3.1 Introduction

Burgess and Crowley Partnership (the Consent holder) operates a quarry next to a wetland tributary of the Patea River at East Road Toko, in the Patea catchment.

At the upstream end of the tributary, flow from the wetland enters the site and is directed via a drain along the southern side of the quarry, where it then flows (piped) under the entrance access to the wetland which surrounds the active quarry site. The wetland extends 85 m before entering the Patea River.

The active quarry area is contoured and bunded so that stormwater is directed to a settling pond adjacent to the quarry face. Stormwater and groundwater are pumped from the quarry pit when necessary through two settling ponds before the treated stormwater is discharged to the wetland.

No aggregate washing is performed at this site. Machinery includes an excavator, an articulated dump truck, a loader, and a mobile crushing unit.



Figure 3 Burgess & Crowley Partnership East Road quarry site footprint as of 2020 (Google Earth)

3.2 Resource consents

Consent number	Purpose	Granted	Review	Expires
7963-1	To discharge stormwater from a quarry site into the Toko Wetland in the Patea River catchment	11 September 2012	June 2022	1 June 2028
7964-1	To take and divert groundwater in the vicinity of the Patea River and the 'Toko Wetland' incidental to quarrying activities	10 September 2018	June 2022	1 June 2028
6505-1	To discharge cleanfill onto and into land for quarry reinstatement purposes	15 December 2004	No further reviews	1 June 2022

Copies of consents are included in Appendix I.

3.3 Compliance monitoring programme

The Consent holder's East Road quarry monitoring programme includes three components, namely: programme liaison and management with consent holders, site inspections, and chemical sampling when required.

3.4 Environmental and administrative performance summary

Four compliance monitoring inspections were undertaken at the East Road quarry during the 2018-2020 monitoring period. Incidental ground water accumulation at the south side of the site was being pumped to the ring drain during two site inspections. The discharge of the treatment system was visually clear. The site was well bunded and all water was directed to the treatment system. The site was well maintained and generally tidy over the monitoring period, and work was being conducted to remediate parts of the site.

During inspections the cleanfill site appeared well managed and maintained. Some unacceptable materials had been identified by the consent holder and had been set aside for disposal offsite.



Photo 2 Burgess & Crowley East Road quarry site below the wetland, 28 May 2019



Photo 3 Burgess & Crowley East Road quarry at top end settling ponds adjacent to wetland 28 May 2019

The Council monitors for possible effects on stream life by conducting a visual inspection of the discharge from the quarry, and the streambed, both up and downstream of the quarry discharge point.

Inspections of the site over the 2018-2020 monitoring period did not note any adverse effects occurring in the receiving waters.

A tabular summary of the consent holder's compliance record for the period under review is set out in Table 5, Table 6, and Table 7.

Table 5 Summary of compliance with consent 7963-1 over the 2018-2020 monitoring period

Purpose: To discharge stormwater from a quarry site into the Toko Wetland in the Patea River catchment		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Settlement pond dimension requirements	Site inspections	Yes
2. Stage development of quarry	Site inspections	Yes
3. Reinstatement of previous stages	Site inspections	Yes
4. Aggregate washing prohibited	Site inspections	Yes
5. Contouring and bunding requirements	Site inspections	Yes
6. Suspended solids limits for discharge	Site inspections – No samples taken	Yes
7. No specified effects on receiving waters	Site inspections	Yes
8. Consent lapse	Consent exercised	N/A
9. Optional review provision	Next available review June 2019	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

The consent holder received a high rating for consent compliance and administrative performance for consent 7963-1 for the 2018-2020 monitoring period as quarry activities were assessed as compliant with the specified consent conditions.

Table 6 Summary of compliance with consent 7964-1.1 over the 2018-2020 monitoring period

Purpose: To take and divert groundwater in the vicinity of the Patea River and the Toko Wetland incidental to quarrying activities		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Piezometer installation requirement	Site inspection	Yes
2. Piezometer monitoring requirement	Provision of data	No

Purpose: To take and divert groundwater in the vicinity of the Patea River and the Toko Wetland incidental to quarrying activities		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
3. Piezometer access	Site inspection	Yes
4. Consent lapse	Consent exercised	N/A
5. Optional review provision	Next available review June 2022	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		Good

The consent holder received a high rating for consent compliance and good rating for administrative performance for consent 7964-1 during the 2018-2020 monitoring period, as the specified consent conditions were mostly met aside from piezometer data and staff gauge readings not being provided by 31 July 2019. Data has since been received and is being assessed for compliance.

Table 7 Summary of compliance with consent 6505-1 over the 2018-2020 monitoring period

Purpose: To discharge cleanfill onto and into land for quarry reinstatement purposes		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Operate in accordance with information submitted in application	Site inspections	Yes
2. Specified cleanfill materials discharged only	Cleanfill inspections, site manager to monitor external material contributed to cleanfill	Yes
3. Contaminants prohibited to enter/ be combined with cleanfill	Cleanfill inspections	Yes
4. Consent holder to check with Council if unsure that the material is authorised	Discussion with consent holder/site manager	Yes
5. Discharge shall not contaminate surface water or groundwater	Site inspections	Yes
6. Maintain silt structures	Site inspections	Yes
7. Maintain drains to minimise stormwater and ponding	Site inspections	Yes
8. Maintain and adhere to a cleanfill management plan	Cleanfill management plan received 24/08/2018	Yes
9. Adopt best practicable option to prevent/minimise effect on environment	Site inspection and discussion with site manager	Yes

Purpose: To discharge cleanfill onto and into land for quarry reinstatement purposes		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
10. Discharge site to be stabilised and revegetated on cessation of operations	N/A	Yes
11. Optional review provision	No further reviews available	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

The consent holder received a high rating for consent compliance and administrative performance for consent 6505-1 during the 2018-2020 monitoring period. Some unauthorised materials were identified by the consent holder and removed from the cleanfill for disposal offsite. All cleanfill activities were assessed as compliant with consent conditions.

3.5 Alterations and recommendations for 2020-2022

It is proposed that for the 2020-2022 monitoring period that the programme is unaltered from that of 2018-2020. It is recommended that monitoring of discharges from the Burgess & Crowley Partnership East Road site in the 2020-2022 period continue at the same level as in 2018-2020, with two inspections per year (one to occur during the summer months, and the other to occur during wet weather), with discharge samples to be collected if warranted. It is also recommended that the inspecting officer measures the levels of the piezometer and staff gauge while onsite for comparison with the annual data received from Burgess and Crowley Partnership.

4 C D Boyd – Surrey Road

7th Compliance Monitoring Annual Report 2018-2020

4.1 Introduction

C D Boyd (the consent holder) operates a quarry off Surrey Road in Inglewood. The quarry is located on the true left bank of the Mangamawhete River in the Waitara catchment. The site has been divided into three areas of approximately 1 ha each, these will be progressively excavated and reinstated. The site is contoured and bunded so that stormwater and wastewater is directed to a settling pond system at the eastern end of the site, or to a drain along the border of the southern edge of the site.

The quarry has produced up to 25,000 m³/year of aggregate in the past, however, the most recent inspections reported the site to be inactive. No washing is currently performed at this site, however a washing plant may be installed in the future. Machinery includes a screen, loader, excavator, truck, and a 5,000 L trailer mounted diesel fuel tank.

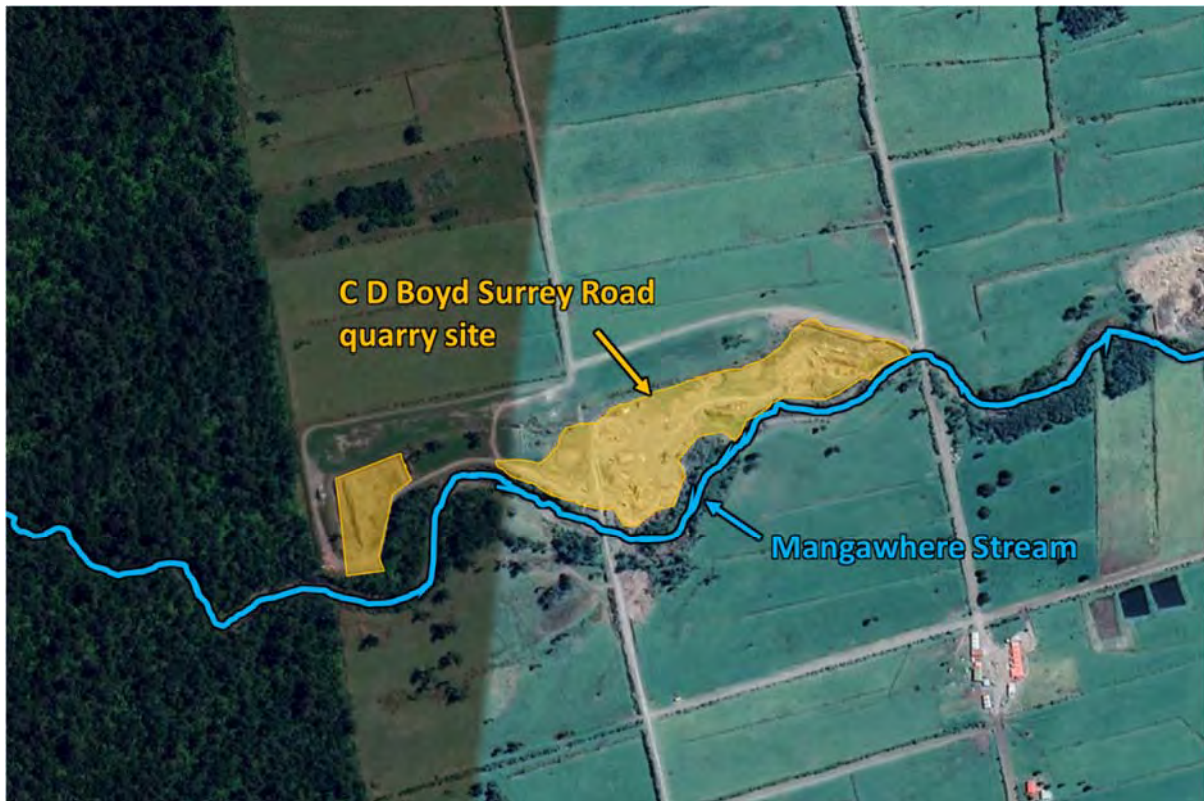


Figure 4 C D Boyd Surrey Road quarry site foot print as of May 2020 (Google Earth)

4.2 Resource consents

Consent number	Purpose	Granted	Review	Expires
6569-1	To discharge treated stormwater and treated washwater from a quarry site onto and into land and into an unnamed tributary of the Mangamawhete Stream a tributary of the Manganui River in the Waitara catchment	08 June 2005	No further reviews	1 June 2021

Copies of consents are included in Appendix I.

4.3 Compliance monitoring programme

The C D Boyd monitoring programme includes three components, namely: programme liaison and management with consent holders, site inspections, and chemical sampling when required.

4.4 Environmental and administrative performance summary

During the 2018-2020 period four compliance monitoring inspections were undertaken at the Surrey Road quarry in relation to consent 6569-1, all of which were conducted directly following or during a rainfall event. The site and extraction area was well bunded, and silt and sediment controls were working well. Discharge from the treatment systems was visually very clear during every inspection.



Photo 4 C D Boyd Surrey Road quarry 2 December 2019

The Council monitors for possible effects on stream life by conducting a visual inspection of the discharge from the quarry, and the streambed, both up and downstream of the quarry discharge point. Inspections of

the site over the 2018-2020 monitoring period did not note any adverse effects occurring in the receiving waters.

A tabular summary of the Consent holder's compliance record for the period under review is set out in Table 8.

Table 8 Summary of compliance with consent 6569-1 over the 2018-2020 monitoring period

Purpose: To discharge treated stormwater and treated washwater from a quarry site onto and into land and into an unnamed tributary of the Mangamawhete Stream a tributary of the Manganui River in the Waitara catchment		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Best practicable option to minimise adverse effects	Inspections of site	Yes
2. Exercise of consent as described in application	Inspections of site	Yes
3. No direct discharge of untreated stormwater	Inspections of the site and treatment system	Yes
4. Contouring and bunding of site	Inspections of site	Yes
5. Control erosion	Inspections of site	Yes
6. Progressively reinstate site	Inspections of site	Yes
7. Fencing of riparian zone	Not reinstated yet	N/A
8. Exclude stock from quarry area	Inspections of site	Yes
9. Maximum stormwater catchment area	Inspections of site	Yes
10. Minimum riparian zone	Not reinstated yet	N/A
11. Maintain and operate silt control structure	Inspections of site	Yes
12. Constituents of the discharge shall meet the consented limits prior to entry into the receiving waters	Inspections and sampling	Yes
13. The discharge shall not give rise to physical or chemical changes in the receiving waters	Inspections and sampling	Yes
14. Limits on turbidity increase of receiving waters	Inspections and sampling	Yes
15. Provide stormwater management and contingency plans	Received 24/03/2011	Yes
16. Reinstatement prior to surrender or lapse of consent	N/A	N/A
17. Consent lapse	N/A	N/A

Purpose: To discharge treated stormwater and treated washwater from a quarry site onto and into land and into an unnamed tributary of the Mangamawhete Stream a tributary of the Manganui River in the Waitara catchment		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
18. Optional review provision	No further reviews prior to consent expiry	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

The consent holder received a high rating for consent compliance and administrative performance for consent 6569-1 during the 2018-2020 monitoring period, as all quarry activities were assessed as compliant with the specified consent conditions.

4.5 Alterations and recommendations for 2020-2022

If the consent holder renews the consent, it is proposed that for the 2020-2022 monitoring period that the programme is unaltered from that of 2018-2020. It is recommended that monitoring of discharges from the C D Boyd Surrey Road site in the 2020-2022 period continue at the same level as in 2018-2020, with two inspections per year (one to occur during the summer months, and the other to occur during wet weather), with discharge samples to be collected if warranted.

5 DM & DL Bourke – Onewhaia Road 13th Compliance Monitoring Annual Report 2018-2020

5.1 Introduction

DM & DL Bourke (the consent holder) operate a quarry located on the true left bank of the Waingongoro River at Onewhaia Road, north of Normanby. The site lies on a small river terrace, elevated 4 m above the river. The quarry has been operating since 1992 producing aggregate for both on-farm purposes and commercial sale.

The active quarry area of approximately 3,600 m² is contoured and bunded to direct all stormwater for treatment prior to discharge to the Waingongoro River. The river is bounded by a 10 m buffer strip, and a riparian buffer helps to filter sediment from stormwater should there be any overflow. No washing is performed at this site.

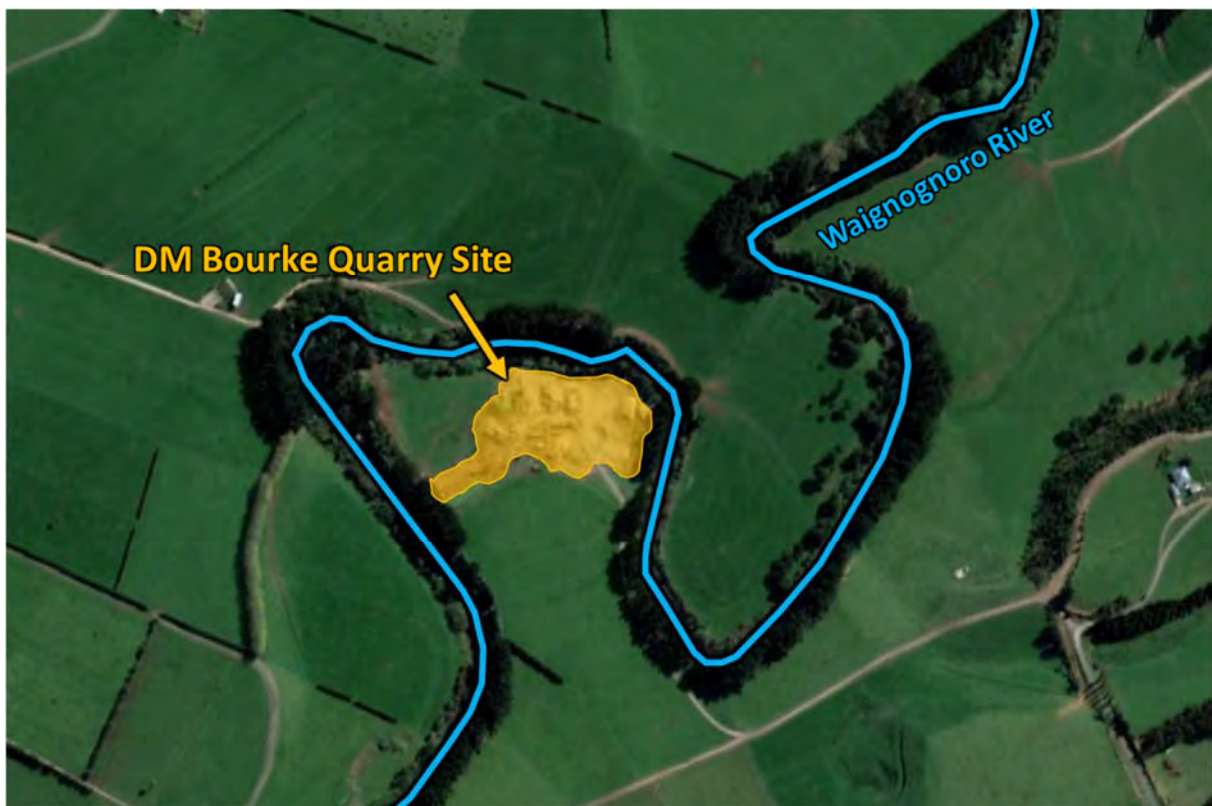


Figure 5 DM & DL Bourke Onewhaia Road quarry site footprint as of May 2020 (Google Earth)

5.2 Resource consents

<i>Consent number</i>	<i>Purpose</i>	<i>Granted</i>	<i>Review</i>	<i>Expires</i>
5001-2	To discharge treated stormwater from a quarry site into the Waingongoro River.	19 January 2012	July 2023	1 June 2029
9933-1	To discharge treated contaminated water, from the dewatering of excavations at a quarry site, onto land and into the Waingongoro River.	12 June 2014	June 2023	1 June 2029
9934-1	To take groundwater incidental to quarry operations in the vicinity of the Waingongoro River	12 June 2014	June 2023	1 June 2029

Copies of consents are included in Appendix I.

5.3 Compliance monitoring programme

The DM & DL Bourke monitoring programme includes three components, namely: programme liaison and management with consent holders, site inspections, and chemical sampling when required.

5.4 Environmental and administrative performance summary

Four compliance monitoring inspections were undertaken at the Onewhaia Road quarry during the 2018-2020 period, with one following a period of rain.

During the inspections it was noted that the site was well bunded and contoured to direct runoff to the treatment system. The site was well maintained and compliant with consent conditions.



Photo 5 DM & DL Bourke Onewhaia Road quarry site 6 December 2017

The Council monitors for possible effects on stream life by conducting a visual inspection of the discharge from the quarry, and the streambed, both up and downstream of the quarry discharge point. Inspections of the site over the 2018-2020 monitoring period did not note any adverse effects occurring in the receiving waters.

A tabular summary of the consent holders compliance record for the period under review is set out in Table 9, Table 10, and Table 11.

Table 9 Summary of compliance with consent 5001-2 over the 2018-2020 monitoring period

Purpose: To discharge treated stormwater from a quarry site into the Waingongoro River		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Adopt best practice	Site inspections	Yes
2. Aggregate washing not permitted	Site inspections	Yes
3. Silt controls must be in place	Site inspections	Yes
4. No direct discharge into the river or tributary	Site inspections	Yes
5. Contour/ bund site to direct water to settlement pond	Site inspections	Yes
6. Constituents of discharge shall meet consent condition standards	Site inspections/No samples required	Yes
7. Discharge cannot cause specified adverse effects beyond mixing zone	Site inspections	Yes
8. Maintain a contingency plan for the event of a spillage and contamination	Contingency plan received 16/06/2016	Yes
9. Optional review provision	Next available review June 2023	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

The consent holder received a high rating for consent compliance and administrative performance for consent 5001-2 in the 2018-2020 monitoring period, as all activities were assessed as compliant with the specified consent conditions.

Table 10 Summary of compliance with consent 9933-1 over the 2018-2020 monitoring period

Purpose: To discharge treated contaminated water, from the dewatering of excavations at a quarry site, onto land and into the Waingongoro River		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. All contaminated groundwater to be treated prior to discharge	Site inspections	Yes
2. Settlement pond capacity requirement	Site inspection	Yes
3. Discharge outlet to exclude backflow from the river	Site inspection	Yes

Purpose: To discharge treated contaminated water, from the dewatering of excavations at a quarry site, onto land and into the Waingongoro River		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
4. Management of water treatment system to ensure consent compliance and minimise discharge	Site inspections	Yes
5. No discharge of untreated contaminated groundwater	Site inspection	Yes
6. Adopt best practice	Site inspections	Yes
7. Constituents of discharge shall meet consent condition requirements	Site inspections/No samples required	Yes
8. Discharge cannot cause specified adverse effects beyond mixing zone	Site inspections	Yes
9. Discharge cannot cause specified changes in visual clarity beyond mixing zone	Site inspections	Yes
10. Treatment system to be banded to prevent stormwater inflow	Site inspections	Yes
11. Maintain a contingency plan for the event of a spillage and contamination	Contingency plan received 16/06/2016	Yes
12. Notification requirement prior to changes in site processes	No notifications received	Yes
13. Lapse clause	Consent exercised	N/A
14. Optional review provision	Next available review June 2023	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

The consent holder received a high rating for consent compliance and administrative performance for consent 9933-1 for the 2018-2020 monitoring period, as all activities were assessed as compliant with the specified consent conditions.

Table 11 Summary of compliance with consent 9934-1 over the 2018-2020 monitoring period

Purpose: To take groundwater incidental to quarry operations in the vicinity of the Waingongoro River		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Groundwater take to be incidental to quarrying activities	Site inspection	Yes
2. Notification requirements	No notification received. However, quarry was pre-existing	N/A

Purpose: To take groundwater incidental to quarry operations in the vicinity of the Waingongoro River		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
3. Adopt best practice	Site inspections	Yes
4. Lapse clause	Consent exercised	N/A
5. Optional review provision	Next available review in June 2023	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

The consent holder received a high rating for consent compliance and administrative performance for consent 9934-1 for the 2018-2020 monitoring period, as all groundwater take activities were assessed as compliant with the specified consent conditions.

Overall, the consent holder has demonstrated a high level of consent compliance with all consents held.

5.5 Alterations and recommendations for 2020-2022

It is proposed that for the 2020-2022 monitoring period that the programme is unaltered from that of 2018-2020. It is recommended that monitoring of discharges from the DM & DL Bourke's Onewhaia Road site in the 2020-2022 period continue at the same level as in 2018-2020, with two inspections per year (one to occur during the summer months, and the other to occur during wet weather), with discharge samples to be collected if warranted.

6 Hey Trust – Monmouth Road Quarry 5th Compliance Monitoring Annual Report 2018-2020

6.1 Introduction

Hey Trust (the consent holder) operate a quarry site on Monmouth Road Stratford, located on the true right bank of the Kahouri Stream in the Patea catchment. The quarry operates on a part time basis to supply aggregate mostly for on farm purposes, but also to the local market. Aggregate extracted from the site is suitable for use on farm races and for hardfill. The material is extracted as required, so generally there is no stockpiled material onsite. No washing is carried out at this site.

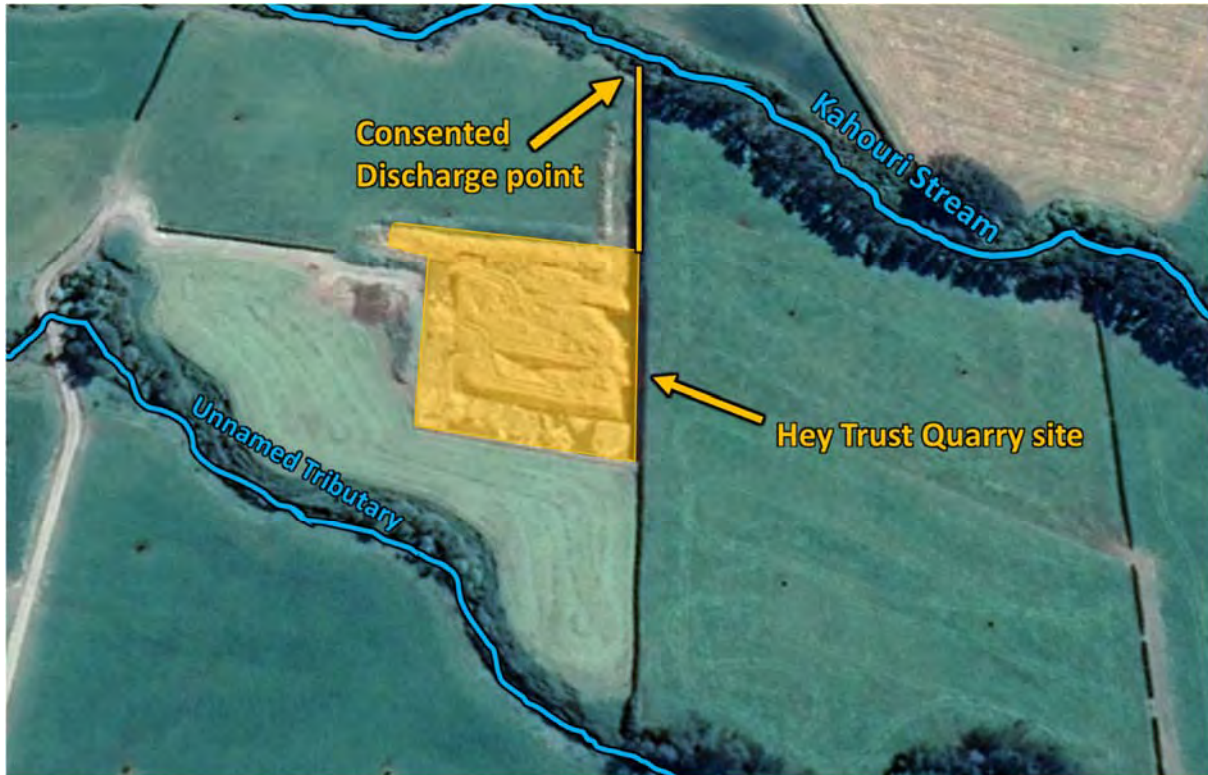


Figure 6 Hey Trust Monmouth Road quarry site footprint as of May 2020 (Google Earth)

6.2 Resource consents

Consent number	Purpose	Granted	Review	Expires
7123-1	To discharge treated stormwater from a quarry site onto and into land and into the Kahouri Stream in the Patea catchment	10 July 2007	No further reviews	1 June 2022

Copies of consents are included in Appendix I.

6.3 Compliance monitoring programme

The Hey Trust monitoring programme includes three components, namely: programme liaison and management with consent holders, site inspections, and chemical sampling when required.

6.4 Environmental and administrative performance summary

Three inspections were undertaken at the Monmouth Road quarry during the 2018-2020 period. Inspection observations noted that the site was well maintained and that little to no water was being discharged from the site. The site is being progressively reinstated as the quarrying operation continues.

Although the quarry was well maintained, the final inspection noted that the discharge point has been moved from the Kahouri stream (2019) to the unnamed tributary (2020) south of the quarry (Photo 6). As a result of the site maintenance, the site had a direct discharge to the unnamed tributary, as the site had been cut off from the settling pond (Photo 7). It was also noted that the site had some direct discharge into the unnamed tributary of the Kahouri stream. The council was not notified of the change in discharge point, however, after discussions with the site manager, an application was made to change the consented discharge point to reflect the changes observed at the site. The quarry was not in operation at the time of the inspections and no adverse effects were noted in receiving waters.



Photo 6 Hey Trust Quarry settling pond and drain as of December 2019 (left) discharging towards the Kahouri Stream. Settling pond drain as of May 2020 discharging to the unnamed tributary (right) rather than the Kahouri stream



Photo 7 The majority the site (1) is directed straight to the discharge (2 & 3) point without treatment (4).

The Council monitors for possible effects on stream life by conducting a visual inspection of the discharge from the quarry, and the streambed, both up and downstream of the quarry discharge point. As there was no discharge at the time of inspection, there was not deemed to be any adverse effects occurring in the receiving waters.

A tabular summary of the consent holder's compliance record for the period under review is set out in Table 12.

Table 12 Summary of compliance with consent 7123-1 over the 2018-2020 monitoring period

Purpose: To discharge treated stormwater from a quarry site onto and into land and into the Kahouri Stream in the Patea catchment		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Best practicable option to prevent or minimise adverse effects	Site inspections	Yes
2. Exercise the consent in accordance with the details provided in the application	Site inspections, discharge has changed	No
3. No direct discharge of untreated stormwater	Inspections of site and river	No
4. Contour and/or bund the active quarry area so that all water is directed for treatment	Site inspections, discussions with the owner	No

Purpose: To discharge treated stormwater from a quarry site onto and into land and into the Kahouri Stream in the Patea catchment		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
5. Control erosion and minimise silt and sediment in the stormwater	Inspections of site and downstream of discharge point	Yes
6. Progressive reinstatement of the quarry to minimise the area of exposed earth	Site inspections	Yes
7. Maximum stormwater catchment area	Site inspections	Yes
8. Maintenance of the stormwater system to ensure consent conditions are met	Consultation and inspection to ensure effective operations system	No
9. Constituents of the discharge shall meet the consented limits prior to entry into the receiving waters	Site inspections/No samples taken	N/A
10. The discharge shall not give rise to physical or chemical changes in the receiving waters	Inspections of the receiving waters and sample collection if warranted	Yes
11. The discharge shall not give rise to changes in visual clarity of the receiving waters	Inspection of the receiving waters	Yes
12. Provide stormwater management and contingency plans	Contingency plan reviewed on 22/04/2017	Yes
13. Reinstatement requirement	Site inspections	Yes
14. Lapse clause	N/A	N/A
15. Optional review provision	No further reviews before the expiry of the consent.	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		Improvement Required
Overall assessment of administrative performance in respect of this consent		Good

The consent holder received a rating that required improvement in environmental performance with consent compliance and a rating of good with regard to administrative performance for the 2018-2020 monitoring period. The quarry needs maintenance to ensure all stormwater is directed to the treatment system to prevent a direct discharge into the receiving waters. Additionally, the discharge point was changed by the consent holder without consulting or notifying the council.

6.5 Alterations and recommendations for 2020-2022

It is proposed that for the 2020-2022 monitoring period that the programme is unaltered from that of 2018-2020. It is recommended that monitoring of discharges from the Hey Trust Monmouth Road site in the 2020-2022 period continue at the same level as in 2018-2020, with two inspections per year (one to occur

during the summer months, and the other to occur during wet weather), with discharge samples to be collected if warranted.

7 Horizon Trust Management Ltd – Rangitatau West Road 2nd Compliance Monitoring Biennial Report 2018-2020

7.1 Introduction

Horizon Trust Management Ltd operates a quarry located on Rangitatau West Road, approximately 10 km northeast of Waitotara (Figure 8). This site is under various stages of reinstatement and material is no longer extracted from the site. The site is maintained to ensure that all stormwater is directed to the treatment ponds, and then discharges to land through the porous subsurface material.



Figure 7 Horizon Trust Management Ltd Rangitatau West Road quarry site footprint as of May 2020 (Google Earth)

7.2 Resource consents

Consent number	Purpose	Granted	Review	Expires
9464-1	To discharge stormwater onto and into land from quarry activities	7 February 2013	June 2022	1 June 2028

Copies of consents are included in Appendix I.

7.3 Compliance monitoring programme

The Company's Rangitatau West Road quarry monitoring programme includes three components, namely programme liaison and management with consent holders, site inspections, and chemical sampling when required.

7.4 Environmental and administrative performance summary

Four inspections were undertaken at the Rangitatau West Road quarry during the 2018-2020 period. The first two inspections found that the site was well managed and operating within consent conditions, however, the third site visit found that the site had been somewhat neglected. The inspections discovered multiple bunding failures (Photo 9), poor contouring of the site (Photo 10), and insufficient treatment pond volume and upkeep which lead to untreated surface water runoff and erosion (Photo 11 and Photo 12). After discussions with the site manager there was an abatement notice issued. Site management was very cooperative and resolved the areas of non-compliance in a timely manner. The site was re-contoured to better direct surface water; the treatment system was cleaned out and new settling ponds were dug to better handle runoff; and all bunding issues were rebuilt (Photo 13). Significant reinstatement works had been completed, and further reinstatement works are underway.



Photo 8 Horizon Trust Management Ltd Rangitatau West Road quarry December 2019



Photo 9 Examples of bunding failures and erosion throughout the site December 2019 allowing runoff to escape before treatment



Photo 10 Contouring in the top photo directs water directly off the back of the site without treatment shown in the bottom photo. December 2019

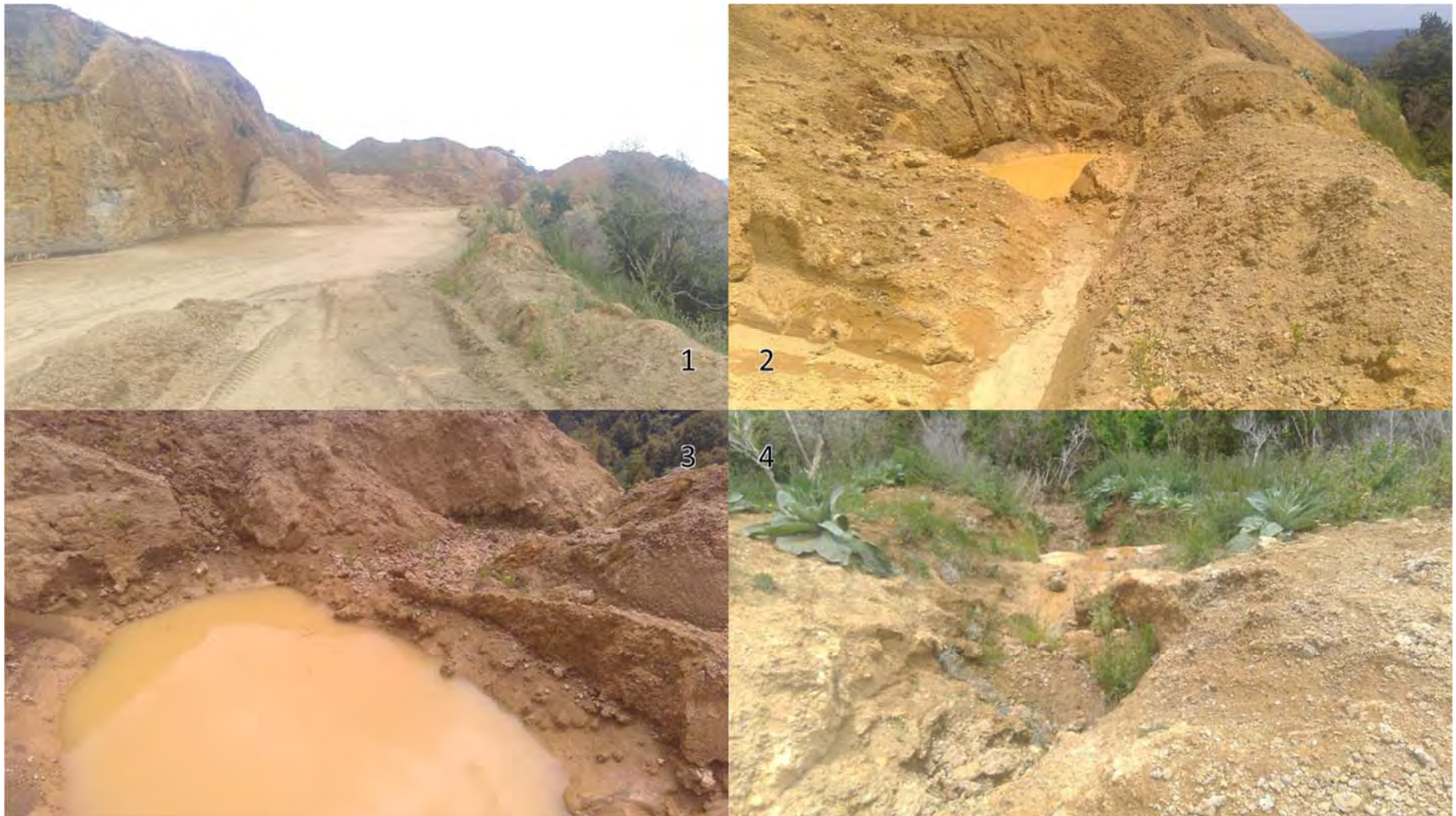


Photo 11 Small settling pond (2&3) draining a large area (1) on the west side of the site which has washed out causing erosion (3&4). December 2019



Photo 12 Two small treatment ponds on the east side of the site. Insufficient for the entirety of the site



Photo 13 Settlement ponds added after abatement notice providing 745 m³ for treatment of stormwater

The Company holds consent to discharge stormwater onto and into land at the quarry site, not to surface water. Inspections of the site during the 2018-2020 monitoring period did not note any discharge to, or adverse effects occurring in surface water systems.

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

Table 13 Summary of compliance with consent 9464-1 over the 2018-2020 monitoring period

Purpose: To discharge stormwater onto and into land from quarry activities		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Active quarry area not to exceed 2 ha at any one time	Site inspections	Yes
2. All stormwater to pass through ponds or traps of minimum capacity (stated)	Site inspections, abatement issued and compliance achieved	Yes
3. Reinstatement of earthworked areas as soon as practicable	Site inspections	Yes
4. Adopt best practicable option to prevent or minimise adverse environmental effects	Site inspections, abatement issued and compliance achieved	Yes
5. Consent lapse clause	Resource consent has been given effect	N/A
6. Review clause	Next optional review June 2022	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		Good
Overall assessment of administrative performance in respect of this consent		Good

The Company received a good rating for consent compliance and administrative performance for the 2018-2020 monitoring period, as quarry activities were non-compliant during one site inspection. An abatement notice was issued, however, identified problems were resolved in an appropriate timeframe with full cooperation from the consent holder and no adverse effects were observed as a result of the non-compliance. The final site inspection found that the site was fully compliant with consent conditions.

7.5 Alterations and recommendations for 2020-2022

It is proposed that for the 2020-2022 monitoring period that the Company's programme remains unchanged from that of 2018-2020. It is recommended that monitoring of the Rangitatau West Road site in the 2020-2022 period should consist of two inspections per year (one to occur during the summer months, and the other to occur during wet weather), with discharge samples to be collected if warranted. Depending on the progress of reinstatement, the consent holder may consider surrendering consents.

8 Horizon Trust Management Ltd – Waiteika Road 5th Compliance Monitoring Annual Report 2018-2020

8.1 Introduction

Horizon Trust Management Ltd (the Company) operates a quarry located on Waiteika Road, in the Waiteika Catchment. The quarry discharges stormwater and washwater to land only.

The quarrying activity involves extracting rock and gravels from lahar mounds from various locations across the site. Only 1.5 ha of the site is excavated at any one time. Once removed, the material is crushed and/or screened. A small wash plant operates onsite to wash the specialised products using water extracted from the onsite settling ponds, however, the site appears to be disused.



Figure 8 Horizon Trust Management Ltd Waiteika Road quarry site footprint as of May 2020 (Google Earth)

Resource consents

Consent number	Purpose	Granted	Review	Expires
7519-1	To discharge treated stormwater and wastewater onto and into land from quarry activities	10 August 2009	No further reviews	1 June 2024
7522-1	To install, use and maintain a culvert for access purposes	10 August 2009	No further reviews	1 June 2024

Copies of consents are included in Appendix I.

8.2 Compliance monitoring programme

The Company's Waiteika Road quarry monitoring programme includes three components, namely: programme liaison and management with consent holders, site inspections, and chemical sampling when required.

8.3 Environmental and administrative performance summary

Four inspections were undertaken at the Waiteika Road quarry during the 2018-2020 period. The quarry was not in operation and there was no equipment onsite. Most of the site has been reinstated and appears to be a storage area for material. The settlement ponds were at a low level and were not discharging. It was noted that the site was well bunded and that it appeared that the water would be appropriately directed for treatment.



Photo 14 Horizon Trust Management Ltd Waiteika Road quarry site 2009

The Company holds consent to discharge stormwater onto and into land at the quarry site, not to surface water. The Inspection of the site during the 2018-2020 monitoring period did not note any discharge to, or adverse effects occurring in surface water systems.

A tabular summary of the Company's compliance record for the period under review is set out in Table 14 and Table 15.

Table 14 Summary of compliance with consent 7519-1 over the 2018-2020 monitoring period

Purpose: To discharge treated stormwater and wastewater onto and into land from quarry activities		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Limits on size of quarry	Inspections of site	Yes
2. Treatment pond specifications	Inspection of ponds	Yes
3. Advise TRC in writing at least 7 days prior to works commencing	No longer applicable	N/A

Purpose: To discharge treated stormwater and wastewater onto and into land from quarry activities		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
4. Earthwork areas to be stabilised vegetatively or otherwise as soon as possible	Inspections of site	Yes
5. Consent lapse	Consent has been exercised	N/A
6. Optional review provision	No further reviews available	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

The Company received a high rating for consent compliance and administrative performance for consent 7519-1 for the 2017-2018 monitoring period, as all quarry activities were assessed as compliant with the specified consent conditions.

Table 15 Summary of compliance with consent 7522-1 over the 2018-2020 monitoring period

Purpose: To install, use and maintain a culvert for access purposes		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Culvert pipe dimension requirements.	Inspections of site	Yes
2. Culvert fill depth restriction	Inspections of site	Yes
3. Work Notification requirements	No longer applicable	N/A
4. Minimise riverbed disturbance	Inspections of site	Yes
5. The culvert shall not obstruct fish passage.	Inspections of site	Yes
6. Culvert inlet specification	Inspections of site	Yes
7. Culvert gradient specification	Inspections of site	Yes
8. Minimise and mitigate the effects of sediment discharged to (and suspended in) the stream	Inspections of the site	Yes
9. Culvert to be removed and area reinstated when it is no longer required, unless otherwise agreed	Inspections of the site	N/A
10. Lapse clause	Consent has been exercised	N/A

Purpose: To install, use and maintain a culvert for access purposes		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
11. Optional review provision	No further reviews available	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

The Company received a high rating for consent compliance and administrative performance for consent 7522-1 for the 2018-2020 monitoring period, as all activities were assessed as compliant with the specified consent conditions.

Overall, the consent holder has demonstrated a high level of consent compliance with all consents held.

8.4 Alterations and recommendations for 2020-2022

It is proposed that for the 2020-2022 monitoring period that the programme is unaltered from that of 2018-2020. It is recommended that monitoring of discharges from the Company's Waiteika Road site in the 2020-2022 period continue at the same level as in 2018-2020, with two inspections per year (one to occur during the summer months, and the other to occur during wet weather), with discharge samples to be collected if warranted.

9 Horizon Trust Management Ltd – Whenuku Road 4th Compliance Monitoring Annual Report 2018-2020

9.1 Introduction

Horizon Trust Management Ltd (the Company) operates a quarry on Whenuku Road near Normanby. The quarry is located on the true left bank of the Waingongoro River, in the Waingongoro catchment.

The quarry site is essentially a flat terrace, with the Waingongoro River along the western boundary. The quarry contains predominantly fine-grained river sorted aggregate which is supplied to a mostly local market. The material is stockpiled onsite as required. Washing is carried out at this site as of October 2019. Site stormwater, washwater, and incidental groundwater is directed through ponds for treatment prior to entering a tributary of the Waingongoro River



Figure 9 Horizon Trust Management Ltd Whenuku Road quarry site footprint as of May 2020 (Google Earth)

9.2 Resource consents

Consent number	Purpose	Granted	Review	Expires
7845-1.2	To discharge treated stormwater and incidental groundwater from a quarry site through land seepage and into Waingongoro River and its tributary	09 October 2019	June 2022	1 June 2029
10017-1	To realign and install piping in sections of two unnamed tributaries of the Waingongoro River, including associated disturbance and reclamation of the streambed	19 August 2015	June 2023	1 June 2029

Consent number	Purpose	Granted	Review	Expires
10018-1	To take groundwater incidental to quarrying operations	19 August 2015	June 2023	1 June 2029

Copies of consents are included in Appendix I.

9.3 Compliance monitoring programme

The Company's Whenuku Road quarry monitoring programme includes three components, namely: programme liaison and management with consent holders, site inspections, and chemical sampling when required.

9.4 Environmental and administrative performance summary

Three inspections were undertaken at the Whenuku Road quarry during the 2018-2020 period.

During the inspections, it was noted that the site appeared well maintained, the perimeter of the site was completely bunded, and all runoff was directed to the treatment system. Discharge into the receiving waters was occurring on two of the three inspections, and was observed as visually clear.



Photo 15 Horizon Trust Management Limited Whenuku Road quarry 15 June 2018

The Council monitors for possible effects on stream life by conducting a visual inspection of the discharge from the quarry, and the streambed, both up and downstream of the quarry discharge point. Inspections of the site over the 2018-2020 monitoring period did not note any observable effect occurring on the Waingongoro River.

A tabular summary of the Company's compliance record for the period under review is set out in Tables 16-18.

Table 16 Summary of compliance with consent 7845-1.2 over the 2018-2020 monitoring period

Purpose: To discharge treated stormwater and incidental groundwater from a quarry site through land seepage and into Waingongoro River and its tributary		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. The quarry activity shall be carried out in accordance with the details provided in the application	Site inspections	Yes
2. Maximum stormwater catchment area	Site inspections	Yes
3. Provision of stormwater management plan prior to commencing each stage of quarrying	Stormwater management plan submitted	Yes
4. Stormwater system to minimise discharges and ensure consent compliance	Consultation and inspection to ensure effective operations system	Yes
5. Settlement pond requirements and capacities	Site inspections	Yes
6. The obligation described in condition 5 shall cease to apply to an area when it has been stabilised.	N/A	N/A
7. No direct discharge of untreated stormwater, washwater, or groundwater	Inspections of site and river	Yes
8. Notification is required prior to the commencement of each stage of the quarry activity.	Notification received 17/08/2015	Yes
9. Best practicable option to prevent or minimise adverse effects	Site inspections	Yes
10. Progressive reinstatement of the quarry to minimise the area of exposed earth	Site inspections	Yes
11. Constituents of the discharge shall meet the consented limits prior to entry into the receiving waters	No samples taken	N/A
12. The discharge shall not affect the visual clarity of the receiving waters	Visual inspection of river and sample collection if warranted	Yes
13. Notification required prior to changes in processes	No changes made to operation	N/A
14. Optional review provision	Next available review June 2020	N/A

Purpose: To discharge treated stormwater and incidental groundwater from a quarry site through land seepage and into Waingongoro River and its tributary		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

The Company received a high rating for environmental performance and a good rating for administrative performance for consent 7845-1.2 during the 2018-2020 monitoring period. Although the quarry activities were assessed as compliant with most specified consent conditions, the required stormwater management plan was outdated. An updated version has been requested and submission is being followed-up.

Table 17 Summary of compliance with consent 10017-1.0 over the 2018-2020 monitoring period

Purpose: To realign and install piping in sections of two unnamed tributaries of the Waingongoro River, including associated disturbance and reclamation of the streambed		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Construction to be carried out in accordance with the application	Consultation and site inspection to ensure compliance	Yes
2. Piping diameter requirements	Consultation and site inspection	Yes
3. Authorises the permanent diversion of stream flow through a reconstructed channel.	Site inspections	Yes
4. New stream channel physical dimension requirements	Site inspections	Yes
5. Fencing, planting and pipe removal responsibilities following the cessation of the quarry operation.	Piping yet to be carried out, and quarry still in operation	N/A
6. New stream channel physical dimension requirements	Site inspections	Yes
7. Wetland construction requirement	Not relevant until condition 5 completed	N/A
8. Physical requirements of the wetland, as well as fencing, planting, and community liaison requirements.	Not relevant until condition 5 completed	N/A
9. Restriction on when in-stream works can take place.	Site inspections, notifications	Yes
10. Provision of fish passage	Not relevant until condition 5 completed	N/A
11. Contouring requirements	Initial works not yet completed	N/A

Purpose: To realign and install piping in sections of two unnamed tributaries of the Waingongoro River, including associated disturbance and reclamation of the streambed		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
12. Secondary flow path dimension requirements.	Initial works not yet completed	N/A
13. Manhole requirements	Piping not installed yet	N/A
14. Maintenance of piping and secondary flow path	Works only in initial stages	N/A
15. Construction requirements for completion of the realignment	Works only in initial stages	N/A
16. Rock rip rap armouring requirements	Works only in initial stages	N/A
17. Rock rip rap armouring requirements at the confluence of the new stream channel with the Waingongoro River	Site inspections	Yes
18. Notification required prior to commencement of each piping and/or realignment work.	Notification received on 21/01/2016	Yes
19. Riparian fencing and planting requirements	Required riparian planting and fencing has not been undertaken	No
20. Riparian fencing and planting schedule	Fencing and planting programme has not been followed and completion deadline has been missed.	No
21. Control, minimise, and mitigate sediment in the stream	Inspections of the site and receiving waters	Yes
22. Vegetation preservation within 20 m of the piped stream.	Works only in initial stages, compliant to date	Yes
23. Stabilisation of earthwork areas following soil disturbance	Site inspections	Yes
24. Responsibilities of the consent holder to remedy adverse effects on the streambed	Inspections of the streambed	Yes
25. Responsibilities of the consent holder in the event that any archaeological remains are discovered	Meets responsibilities	N/A
26. Optional review provision	Next available review June 2023	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		Good
Overall assessment of administrative performance in respect of this consent		High

Many of the consent conditions are not currently applicable in regards to compliance monitoring, as limited stream diversion work has taken place to date. The Company received an improvement required rating for environmental performance and a high rating for administrative performance for consent 10017-1.0 during the 2018-2020 monitoring period, as consent conditions relating to riparian planting were non-compliant. The consent holder has since notified the Council that they have purchased trees for the riparian planting and will be carrying out the planting and fencing work. Compliance will be assessed during upcoming programmed inspections of the site.

Table 18 Summary of compliance with consent 10018-1.0 over the 2018-2020 monitoring period

Purpose: To take groundwater incidental to quarrying operations		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Notification requirement	No notification received, However, quarry was pre-existing	N/A
2. Best practicable option to prevent or minimise adverse effects	Site inspection	Yes
Optional review provision	Next available review June 2023	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

The Company received a high rating for consent compliance and administrative performance for consent 10018-1.0 during the 2018-2020 monitoring period, as all groundwater take activities were assessed as compliant with the specified consent conditions.

Overall, the consent holder has demonstrated a good level of both environmental and administrative consent compliance during the 2018-2020 period.

9.5 Alterations and recommendations for 2020-2022

It is proposed that for the 2020-2022 monitoring period that the programme is unaltered from that of 2018-2020. It is recommended that monitoring of discharges from the Company's Whenuku Road site in the 2020-2022 period continue at the same level as in 2018-2020, with two inspections per year (one to occur during the summer months, and the other to occur during wet weather), with discharge samples to be collected if warranted.

10 Ravensdown Windy Point Quarry Ltd – Rangitatau West Road

5th Compliance Monitoring Annual Report 2018-2020

10.1 Introduction

Ravensdown Windy Point Quarry Ltd (the Company) operates a quarry located on Rangitatau West Road, in the Waitotara catchment, 2 km from the Makokako Stream.

Extracted aggregate is processed by dry crushing, and no aggregate washing is carried out on site. Stormwater from quarried areas is contained within the quarry pit and discharge is entirely via seepage to ground. The site is operated in a manner that ensures that the bottom of the cut always slopes back to the hillside or the quarry pit. This ensures that no untreated stormwater can escape from the site.

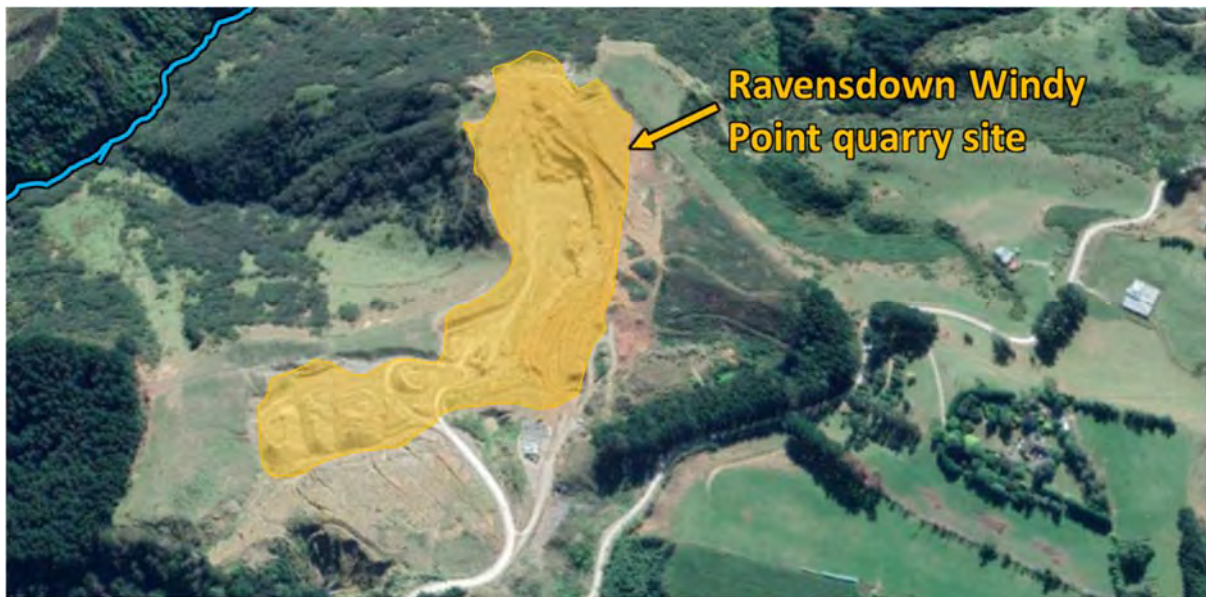


Figure 10 Ravensdown Windy Point Rangitatau West Road quarry site footprint as of May 2020 (Google Earth)

10.2 Resource consents

Consent number	Purpose	Granted	Review	Expires
9570-1	To discharge stormwater onto and into land from quarrying activities	28 May 2013	June 2022	1 June 2028
9972-1.2	To discharge cleanfill onto and into land	20 November 2014	June 2022	1 June 2034

Copies of consents are included in Appendix I.

10.3 Compliance monitoring programme

The Company's Rangitatau West Road quarry monitoring programme includes three components, namely: programme liaison and management with consent holders, site inspections, and chemical sampling when required.

10.4 Environmental and administrative performance summary

Four inspections were undertaken at the Rangitatau West Road quarry during the 2018-2020 period, one of which was during heavy rainfall. During the monitoring period it was noted that the site was tidy and appeared well maintained. The site was well bunded and all water was directed to the treatment system, with discharge occurring to land.

There were relatively low levels of fill material being discharged to the cleanfill area.



Photo 16 Ravensdown Windy Point Quarry 04 December 2019

The Company holds consent to discharge stormwater onto and into land at the quarry site, not to surface water. Inspections of the site over the 2018-2020 monitoring period did not note any discharge to, or adverse effects occurring in any surface water system.

A tabular summary of the Company's compliance record for the period under review is set out in Table 19 and Table 20.

Table 19 Summary of compliance with consent 9570-1 over the 2018-2020 monitoring period

Purpose: To discharge stormwater onto and into land from quarrying activities		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Quarry activities shall not exceed two ha at any one time	Site inspections	Yes
2. Settlement ponds and sediments traps must be in place to capture any run-off	Site inspections	Yes
3. Earthworks shall be stabilised with vegetation	Site inspections	Yes
4. Adopt best practicable option	Site inspections	Yes
5. Optional review provision	Next available review June 2022	N/A

Purpose: To discharge stormwater onto and into land from quarrying activities		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

The Company received a high rating for consent compliance and administrative performance for consent 9570-1 for the 2018-2020 monitoring period, as all quarry activities were assessed as compliant with the specified consent conditions.

Table 20 Summary of compliance with consent 9972-1.2 over the 2018-2020 monitoring period

Purpose: To discharge cleanfill onto and into land		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Cleanfill limited to prescribed area	Site inspections	Yes
2. May only discharge cleanfill / inert materials	Site inspections	Yes
3. No prohibited contaminants to be discharged	Site inspections	Yes
4. Obtain approval from the Council if unsure of status of contaminant	TRC – consent holder liaison	N/A
5. No contaminant to enter surface water or groundwater	Site inspections	Yes
6. Silt retention structures to be installed	Site inspections	Yes
7. Maintain drains to divert stormwater from cleanfill discharge area	Site inspections	Yes
8. Adopt best practicable option to prevent or minimise environmental effect	Site inspections	Yes
9. Reinstatement of site at conclusion of activity	Site inspections	N/A
10. Consent lapse	Consent is in effect	N/A
11. Optional review provision	Next available review June 2022	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

The Company received a high rating for consent compliance and administrative performance for consent 9972-1.2 for the 2018-2020 monitoring period, as all cleanfill activities were assessed as compliant with the specified consent conditions.

Overall, the Company has demonstrated a high level of consent compliance with all consents held.

10.5 Alterations and recommendations for 2020-2022

It is proposed that for the 2020-2022 monitoring period that the programme is unaltered from that of 2018-2020. It is recommended that monitoring of discharges from the Company's site in the 2020-2022 period continue at the same level as in 2018-2020, with two inspections per year (one to occur during the summer months, and the other to occur during wet weather), with discharge samples to be collected if warranted.

11 R A Wallis Ltd - Lower Glenn Road Quarry

2nd Compliance Monitoring Biennial Report 2018-2020

11.1 Introduction

R A Wallis Ltd (the Company) operates a quarry on Lower Glenn Road located adjacent to the true left bank of the Kaipokonui River, approximately 4 km west of Manaia.

The total site is divided into two areas (northern and southern) which are separated by an oxbow feature created by the stream. The quarrying area is divided into three blocks of land that will be excavated and reinstated separately. Excavation has only occurred in block two since the quarry's resource consent was granted in 2013.

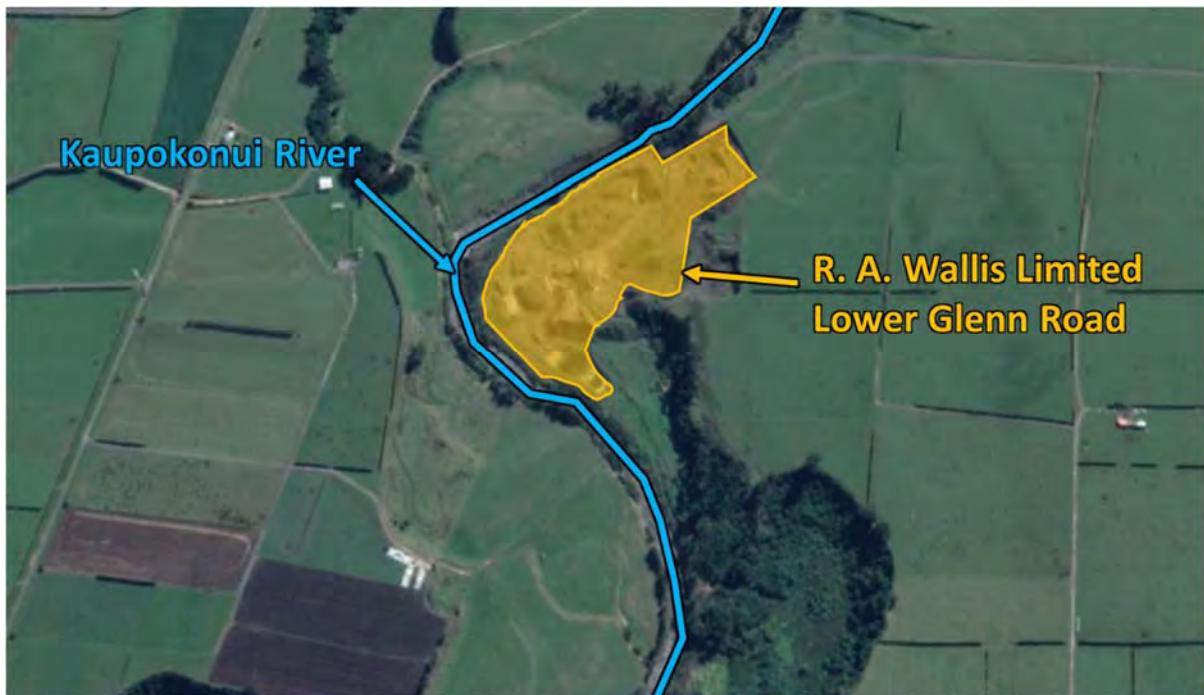


Figure 11 R A Wallis Ltd Lower Glenn Road quarry footprint as of May 2020 (Google Earth)

11.2 Resource consents

Consent number	Purpose	Granted	Review	Expires
9600-1	To discharge stormwater onto and into land from quarrying activities	19 July 2013	June 2023	1 June 2029
10351-1.0	To disturb the bed of the Kaipokonui Stream	25 October 2016	June 2023	1 June 2029

Copies of consents are included in Appendix I.

11.3 Compliance monitoring programme

The Company's Lower Glenn Road quarry monitoring programme includes three components, namely: programme liaison and management with consent holders, site inspections, and chemical sampling when required.

11.4 Environmental and administrative performance summary

Three compliance monitoring inspections were undertaken at the Lower Glenn Road quarry during the 2016-2018 period. It was noted that during the inspections the site was clean and tidy, and no issues identified. The site was well bunded, and ponds were low in level, clear, and not discharging.



Photo 17 R A Wallis Ltd's Lower Glenn Road Quarry 14 August 2018

The Company holds consent to discharge stormwater onto and into land at the quarry site, not to surface water. Inspections of the site over the 2018-2020 monitoring period did not note any discharge to, or adverse effects occurring in any surface water system.

A tabular summary of the Company's compliance record for the period under review is set out in Table 21 and Table 22.

Table 21 Summary of compliance with consent 9600-1 over the 2018-2020 monitoring period

Purpose: To discharge stormwater onto and into land		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Active quarry area not to exceed 6 ha at any one time	Site inspections	Yes
2. All runoff to pass through ponds or traps of minimum stated capacity	Site inspections	Yes
3. Condition two no longer need apply for areas that have undergone reinstatement	Site inspections	Yes
4. Quarried areas to be reinstated as soon as practicable	Site inspections	Yes
5. Notify the Council seven days prior to commencement of work	Consent holder liaison	Yes
6. Consent holder to adopt best practicable option	Inspections	Yes
7. Consent lapse	Consent has been given effect	N/A
8. Review clause	Next optional review in June 2023	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

The Company received a high rating for consent compliance and administrative performance for consent 9600-1 during the 2016-2018 monitoring period, as all quarry activities were assessed as compliant with the specified consent conditions.

Table 22 Summary of compliance with consent 10351-1.0 over the 2018-2020 monitoring period

Purpose: To disturb the bed of the Kaupokonui Stream		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Disturbance of land as described in application	Site inspections	Yes
2. Maintain riparian margins	Site inspections	Yes
3. Streambed reinstatement responsibilities	Site inspections	Yes
4. Review clause	Next optional review in June 2023	N/A

Purpose: <i>To disturb the bed of the Kaupokonui Stream</i>		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

The Company received a high rating for consent compliance and administrative performance for consent 10351-1.0 during the 2018-2020 monitoring period, as all streambed disturbance activities were assessed as compliant with the specified consent conditions.

Overall, the Company has demonstrated a high level of consent compliance with all consents held.

11.5 Alterations and recommendations for 2020-2022

It is proposed that for the 2020-2022 monitoring period that the programme is unaltered from that of 2018-2020. It is recommended that monitoring of discharges from the Company's Lower Glenn Road quarry site in the 2020-2022 period remain at two inspections per year (one to occur during the summer months, and the other to occur during wet weather), with discharge samples to be collected if warranted.

12 Taunt Contracting Ltd – Bird Road 13th Compliance Monitoring Annual Report 2018-2020

12.1 Introduction

Taunt Contracting Ltd (the Company) operates a quarry and shingle washing operation at Bird Road near Toko. The quarry is located on the true right bank of the Patea River, in the Patea catchment.

The quarry has been operating for over 60 years and mainly provides aggregate for on farm purposes, but has sold aggregate commercially for the local market.

The property is 5.4 ha in size with approximately half of the area used for quarrying. The quarry is contoured and bunded so that stormwater is directed to a series of treatment ponds adjacent to the quarry face. Water from these ponds is discharged to an unnamed tributary of the Patea River.

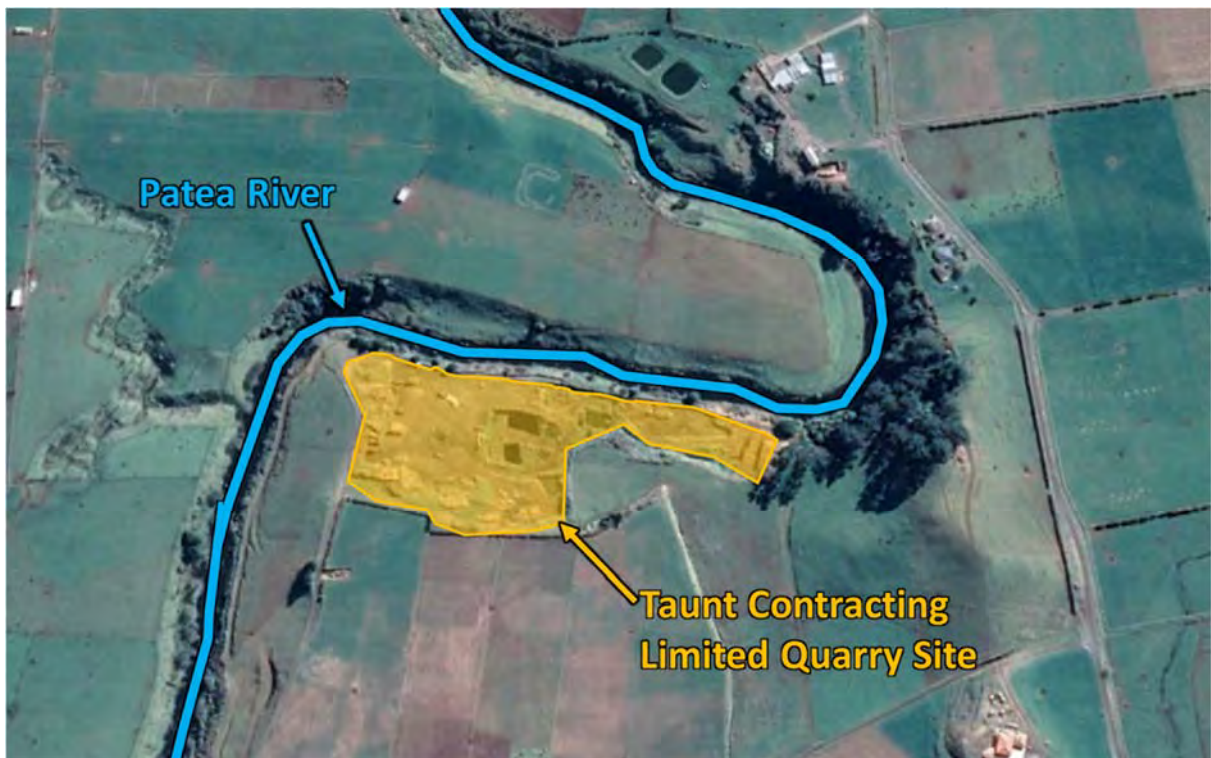


Figure 12 Taunt Contracting Ltd Bird Road quarry site November 2020 (Google Earth)

12.2 Resource consents

Consent number	Purpose	Granted	Review	Expires
5002-2	To discharge treated stormwater and washwater from a quarry and shingle washing operation onto and into land and into an unnamed tributary of the Patea River	25 August 2010	28 July 2022	1 June 2028

Copies of consents are included in Appendix I.

12.3 Compliance monitoring programme

The Company's monitoring programme includes three components, namely: programme liaison and management with consent holders, site inspections, and chemical sampling when required.

12.4 Environmental and administrative performance summary

One inspection was undertaken at the Bird Road quarry during the 2018-2020 period. The site was well maintained, well bunded, and water treatment systems were operating well.



Photo 18 Taunt Contracting Ltd Bird Road quarry site 6 December 2017

The Council monitors for possible effects on stream life by conducting a visual inspection of the discharge from the quarry, and the streambed, both up and downstream of the quarry discharge point. During the inspection the ponds were discharging minimal clear discharge. There was no visual effect on receiving waters.

A tabular summary of the Company's compliance record for the period under review is set out in Table 23.

Table 23 Summary of compliance with consent 5002-2 over the 2018-2020 monitoring period

Purpose: To discharge treated stormwater and washwater from a quarry and shingle washing operation onto and into land and into an unnamed tributary of the Patea River		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Best practicable option to prevent or minimise adverse effects	Site inspections	Yes
2. Sediment control capacity requirements	Site inspections	Yes
3. No direct discharge of untreated stormwater or washwater	Inspections of site and river	Yes
4. Contour and/or bund the active quarry site so that all water is directed for treatment	Site inspections	Yes

Purpose: To discharge treated stormwater and washwater from a quarry and shingle washing operation onto and into land and into an unnamed tributary of the Patea River		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
5. Constituents of the discharge shall meet the consented limits prior to entry into the receiving waters	Sample collection if warranted	N/A
6. The discharge shall not give rise to physical or chemical changes in the receiving waters	Inspections of river and sample collection if warranted	Yes
7. Maintain a contingency plan	Contingency plan received 9/05/2016	Yes
8. Optional review provision	No further reviews before the expiry of the consent.	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

The Company received a high rating for consent compliance and administrative performance for the 2017-2018 monitoring period, as all quarry activities were assessed as compliant with the specified consent conditions.

12.5 Alterations and recommendations for 2020-2022

It is proposed that for the 2020-2022 monitoring period that the programme is unaltered from that of 2018-2020. It is recommended that monitoring of discharges from the Company's Bird Road quarry site in the 2020-2022 period continue at the same level as in 2018-2020, with two inspections per year (one to occur during the summer months, and the other to occur during wet weather), with discharge samples to be collected if warranted.

13 Vickers Quarries Ltd- York Road 22nd Compliance Monitoring Biennial Report 2018-2020

13.1 Introduction

Vickers Quarries Ltd (the Company) operates a quarry on York Road adjacent to the Egmont National Park, approximately 6 km west of Midhurst. The site was first excavated in 1945 and has since been operated by various companies. Vickers Quarries Ltd began operating at this quarry in 1996.



Figure 13 Vickers Quarries Ltd York Road quarry site as of November 2019 (Google Earth)

The quarry is separated into two main areas: a bottom site, and a top site. Site access from York Road leads directly to the bottom site, which is bounded by the Manganui River and an unnamed tributary of the Waipuku Stream. The area contains offices, stock piles, processing and load out areas, a wash plant and settlement ponds. Service water is recycled for aggregate washing. The treated stormwater and washwater discharge from this part of the quarry is directed to the unnamed tributary of the Waipuku Stream.

A 500 m access road connects the bottom site to the top site. This top site was originally bounded by the Egmont National Park, the Manganui River and the unnamed tributary of the Waipuku Stream. However, the quarry has since expanded north to the other side of this tributary. Excavation efforts are now focused on the expanded site north of the tributary. Currently, stormwater from this excavation area is directed back down the access road and piped across the tributary into the bottom site, where it then enters the settlement ponds. Once the quarry floor is low enough, the stormwater will be redirected to the settlement pond system in the top site. These top settlement ponds currently treat the stormwater and incidental groundwater generated in the top site. The ponds discharge into an unnamed tributary of the Manganui River.

The quarry also had a designated cleanfill in the top site until March 2017, when it was remediated and the consent surrendered.

13.2 Resource consents

Consent number	Purpose	Granted	Review	Expires
4905-3.1	To discharge treated stormwater, groundwater and washwater from a quarry site onto and into land and into an unnamed tributary of the Waipuku Stream	22 May 2014	June 2020	1 June 2027
5218-2.1	To discharge treated stormwater and groundwater seepage from quarry operations into an unnamed tributary of the Manganui River	22 May 2014	June 2020	1 June 2027
7360-1	To erect, place and maintain a rock rip-rap wall to the left bank of the Manganui River for erosion control purposes at or about (NZTM) 1702246E-5650163 and 1702541E-5650262N	18 August 2008	June 2021	1 June 2027
9850-1.0	To take groundwater incidental to quarry operations	22 May 2014	June 2020	1 June 2027
9812-1.1	To disturb and reclaim the streambed sections of unnamed tributaries of Waipuku Stream, in association with quarry operations	22 May 2014	July 2020	1 June 2027

Copies of consents are included in Appendix I.

13.3 Compliance monitoring programme

The Company's York Road quarry monitoring programme includes three components, namely: programme liaison and management with consent holders, site inspections, and chemical sampling when required.

13.4 Environmental and administrative performance summary

Four compliance monitoring inspections were undertaken at the Company's York Road quarry during the 2018-2020 period.

The inspections found that the quarry was well managed throughout the monitoring period. All stormwater and groundwater from the top site appeared to be directed through settlement ponds before discharging to the Manganui River. Stormwater, washwater and groundwater from the lower site was also directed through settlement ponds before discharging to the unnamed tributary of the Waipuku Stream. The settlement ponds were well maintained over the course of the monitoring period.



Photo 19 Vickers Quarries Ltd York Road settlement ponds 27 November 2017

The Council monitors for possible effects on stream life by conducting a visual inspection of the discharge from the quarry, and the streambed, both up and downstream of the quarry discharge point. Discharge from the site was clear, with no adverse effects occurring in any receiving waters.

A tabular summary of the Company's compliance record for all consents for the period under review is set out in Tables 25-30.

Table 24 Summary of compliance with consent 4905-3.1 over the 2018-2020 monitoring period

Purpose: To discharge treated stormwater, groundwater and washwater onto and into land and into an unnamed tributary of the Waipuku Stream		
dition requirement	Means of monitoring during period under review	Compliance achieved?
1. Provision of quarry stage plan	Received 15/12/2015	Yes
2. Buffer zone requirements	Site inspections	Yes
3. Provision of stormwater management plan	Plan received on 25/05/2018, finalised on 25/09/2018	Yes
4. Adopt best practicable option	Site inspections	Yes
5. Progressive reinstatement to minimise exposed earth	Site inspections	Yes
6. Stormwater catchment area limit	Site inspections	Yes

Purpose: To discharge treated stormwater, groundwater and washwater onto and into land and into an unnamed tributary of the Waipuku Stream		
dition requirement	Means of monitoring during period under review	Compliance achieved?
7. Operation and maintenance of settlement ponds	Site inspections	Yes
8. No direct discharge of untreated stormwater or groundwater	Site inspections	Yes
9. Limits on constituents of discharge	Samples collected from IND001025 on 17/11/2016 and 13/06/2018	Yes
10. Discharge shall not give rise to adverse effects in receiving waters	Site inspections	Yes
11. Turbidity / suspended solids limits downstream of discharge	No samples taken	N/A
12. Isolation and re-circulation of washwater system	Site inspections	Yes
13. Notification prior to change in quarry operation	Consent holder liaison	Yes
14. Review clause	Next optional review June 2020	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

The Company received a high rating for consent compliance and administrative performance for consent 4905-3.1 during the 2018-2020 monitoring period, as all quarry activities were assessed as compliant with specified consent conditions.

Table 25 Summary of compliance with consent 5218-2.1 over the 2018-2020 monitoring period

Purpose: To discharge treated stormwater and groundwater seepage into an unnamed tributary of the Manganui River		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Provision of quarry stage plan	Received 15/12/2015	Yes
2. Buffer zone requirements	Site inspections	Yes
3. Provision of stormwater management plan	Plan received on 25/05/2018, finalised on 25/09/2018	Yes
4. Adopt best practicable option	Site inspections	Yes
5. Progressive reinstatement to minimise exposed earth	Site inspections	Yes
6. Stormwater catchment area limit	Site inspections	Yes

Purpose: To discharge treated stormwater and groundwater seepage into an unnamed tributary of the Manganui River		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
7. Operation and maintenance of settlement ponds	Site inspections	Yes
8. No direct discharge of untreated stormwater or groundwater	Site inspections	Yes
9. Limits on constituents of discharge	No samples taken	N/A
10. Discharge shall not give rise to adverse effects in receiving waters	Site inspections	Yes
11. Turbidity / suspended solids limits downstream of discharge	No samples taken	N/A
12. Notification prior to change in quarry operation	Consent holder liaison	Yes
13. Review clause	Next optional review June 2022	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

The Company received a high rating for consent compliance and administrative performance for consent 5218-2.1 during the 2018-2020 monitoring period, as all quarry activities were assessed as compliant with specified consent conditions.

Table 26 Summary of compliance with consent 7360-1 over the 2018-2020 monitoring period

Purpose: To erect, place and maintain a rock rip-rap wall to the left bank of the Manganui River for erosion control purposes at or about (NZTM) 1702246E-5650163 and 1702541E-5650262N		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Exercise consent in accordance with application	Site inspections	Yes
2. Restrictions on when works can take place	Site inspections and consent holder liaison	Yes
3. Notification requirement	No notifications received	Yes
4. Minimise and reinstate riverbed disturbance	Site inspections	Yes
5. Minimise and mitigate sediment discharge	Site inspections	Yes
6. Remove structure and reinstate area when structure is no longer required	Site inspections and consent holder liaison – Structure still in use	N/A
7. Maintain natural river flow and fish passage	Site inspections	Yes

Purpose: To erect, place and maintain a rock rip-rap wall to the left bank of the Manganui River for erosion control purposes at or about (NZTM) 1702246E-5650163 and 1702541E-5650262N		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
8. Lapse clause	Consent is in effect.	N/A
9. Review clause	Next optional review June 2021	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

The Company received a high rating for consent compliance and administrative performance for the 2016-2018 period, as all erosion control activities were assessed as compliant with the specified consent conditions.

Table 27 Summary of compliance with consent 9850-1.0 over the 2018-2020 monitoring period

Purpose: To take groundwater incidental to quarry operations		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Provision of quarry stage plan	Received 15/12/2015	Yes
2. Buffer zone requirements	Site inspections	Yes
3. Provision of stormwater management plan	Plan received on 25/05/2018, finalised on 25/09/2018	Yes
4. Groundwater take incidental to quarrying activities	Site inspections	Yes
5. Notification prior to work commencement	Consent holder liaison	Yes
6. Adopt best practicable option	Site inspections	Yes
7. Consent lapse	Consent has been exercised	N/A
8. Review clause	Next optional review June 2020	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

The Company received a high rating for consent compliance and administrative performance for consent 9850-1.0 during the 2016-2018 monitoring period, as all groundwater take activities were assessed as compliant with specified consent conditions.

Table 28 Summary of compliance with consent 9812-1.1 over the 2018-2020 monitoring period

Purpose: <i>To disturb and reclaim the streambed sections of unnamed tributaries of Waipuku Stream</i>		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
1. Provision of quarry stage plan	Received 15/12/2015	Yes
2. Buffer zone requirements	Site inspections	Yes
3. Provision of stormwater management plan	Plan received on 25/05/2018, finalised on 25/09/2018	Yes
4. Streambed disturbance and reclamation to comply with stormwater management plan	N/A – streambed disturbance activities not carried out	N/A
5. Adopt best practicable option	N/A – streambed disturbance activities not carried out	N/A
6. Notification prior to work commencement	N/A – streambed disturbance activities not carried out	N/A
7. Consent lapse	Lapse date 1 June 2027 – consent not yet exercised	N/A
8. Review clause	Next optional review June 2022	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High
Overall assessment of administrative performance in respect of this consent		High

The Company received a high rating for consent compliance and administrative performance for consent 9812-1.1 during the 2018-2020 monitoring period, as compliance was recorded for the specified consent conditions that were assessed. The consent was not exercised during the monitoring period, with streambed disturbance activities not yet carried out.

Overall, the consent holder has demonstrated a high level of consent compliance and administrative performance with all consents held.

13.5 Alterations and recommendations 2020-2022

It is proposed that for the 2020-2022 monitoring period that the programme is unaltered from that of 2018-2020. It is recommended that monitoring of the Company's York Road site in the 2020-2022 period remain at two inspections per year (one to occur during the summer months, and the other to occur during wet weather), with discharge samples to be collected if warranted.

Glossary of common terms and abbreviations

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

Biomonitoring	Assessing the health of the environment using aquatic organisms.
Bund	A wall around a tank to contain its contents in the case of a leak.
Conductivity	Conductivity, an indication of the level of dissolved salts in a sample, usually measured at 25°C and expressed in m μ /m.
Fresh	Elevated flow in a stream, such as after heavy rainfall.
g/m ³	Grams per cubic m, and equivalent to milligrams per litre (mg/L). In water, this is also equivalent to parts per million (ppm), but the same does not apply to gaseous mixtures.
Incident	An event that is alleged or is found to have occurred that may have actual or potential environmental consequences or may involve non-compliance with a consent or rule in a regional plan. Registration of an incident by the Council does not automatically mean such an outcome had actually occurred.
Intervention	Action/s taken by Council to instruct or direct actions be taken to avoid or reduce the likelihood of an incident occurring.
Investigation	Action taken by Council to establish what were the circumstances/events surrounding an incident including any allegations of an incident.
IR	The Incident Register contains a list of events recorded by the Council on the basis that they may have the potential or actual environmental consequences that may represent a breach of a consent or provision in a Regional Plan.
L/s	Litres per second.
MCI	Macroinvertebrate community index; a numerical indication of the state of biological life in a stream that takes into account the sensitivity of the taxa present to organic pollution in stony habitats.
μ S/cm	Microsiemens per centimetre.
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.
FNU	Formazin Nephelometric Units, 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).
pH	A numerical system for measuring acidity in solutions, with 7 as neutral. Numbers lower than 7 are increasingly acidic and higher than 7 are increasingly alkaline. The scale is logarithmic i.e. a change of 1 represents a ten-fold change in strength. For example, a pH of 4 is ten times more acidic than a pH of 5.
Physicochemical	Measurement of both physical properties (e.g. temperature, clarity, density) and chemical determinants (e.g. metals and nutrients) to characterise the state of an environment.
Resource consent	Refer Section 87 of the RMA. Resource consents include land use consents (refer Sections 9 and 13 of the RMA), coastal permits (Sections 12, 14 and 15), water permits (Section 14) and discharge permits (Section 15).
RMA	<i>Resource Management Act 1991</i> and including all subsequent amendments.

SS	Suspended solids.
Temp	Temperature, measured in °C (degrees Celsius).
Turb	Turbidity, expressed in FNU.

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

Bibliography and references

Taranaki Regional Council, 1992: Regional Policy Statement Working Paper. Aggregate extraction in Taranaki. TRC Report.

For previous quarry monitoring reports, please visit the Council website:

<https://www.trc.govt.nz/council/plans-and-reports/environmental/consent-compliance-monitoring-reports/quarries/>

Appendix I

Resource consents for the Southern quarries

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

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

Name of
Consent Holder: Bunn Earthmoving Ltd
 PO Box 171
 Stratford 4352

Decision Date: 2 February 2018

Commencement Date: 2 February 2018

Conditions of Consent

Consent Granted: To discharge treated stormwater from a quarry site, into the
 Mangamawhete Stream

Expiry Date: 1 June 2033

Review Date(s): June 2021, June 2027

Site Location: 756 Surrey Road, Tariki

Grid Reference (NZTM) 1702070E-5652811N

Catchment: Waitara

Tributary: Manganui
 Mangamawhete

*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 treated stormwater into the Mangamawhete Stream, as described in the information provided with the application. In the case of any contradiction between the details of information provided and the conditions of this consent, the conditions of this consent shall prevail.
2. This consent does not authorise any discharge from aggregate-washing.
3. The stormwater treatment system shall be constructed in general accordance with the plan attached as Appendix 1.
4. 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 stormwater treatment system will be effectively operated and maintained in such a manner that the discharge complies with the conditions of the consent, and shall include as minimum:
 - a) maintenance and cleaning out of sediment ponds;
 - b) stockpiling and/or disposal of quarried and cleaned out material;
 - c) stabilisation of stockpiled cleaned-out material; and
 - d) general maintenance of the sediment control measures (perimeter bund etc.).
5. 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.
6. The consent holder shall operate and progressively reinstate the quarry site in a manner which ensures that the area of exposed, un-vegetated earth, within the quarry's stormwater catchment is kept to a minimum at all times.
7. The consent holder shall ensure that at any one time the stormwater catchment of the discharge and the area exposed is no greater than 1.3 ha.

8. 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 ⁻³
total recoverable hydrocarbons	Concentration not greater than 15 gm ⁻³

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

9. After allowing for reasonable mixing, within a mixing zone extending 25 metres downstream of any discharge point, the discharge shall not give rise to any of the following effects in the receiving waters:
- 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.
10. After allowing for reasonable mixing, within a mixing zone extending 25 metres downstream of any discharge point, the discharge shall not give rise to any of the following effects in the receiving waters:
- an increase in the suspended solids concentration greater than 10 gm⁻³ when the turbidity as measured immediately upstream of the discharge point is equal to or less than 5 NTU (nephelometric turbidity units); or
 - an increase in the turbidity of more than 50%, where the stream turbidity measured upstream of the discharge is greater than 5 NTU, as determined using NTU (nephelometric turbidity units).
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 and any amended versions shall be provided to the Chief Executive of the Taranaki Regional Council.
12. 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.

Consent 10527-1.0

13. This consent shall lapse on 31 March 2023, unless the consent is given effect to before the end of that period or the Taranaki Regional Council fixes a longer period pursuant to section 125(1)(b) of the Resource Management Act 1991.
14. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2021 and/or June 2027, 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 2 February 2018

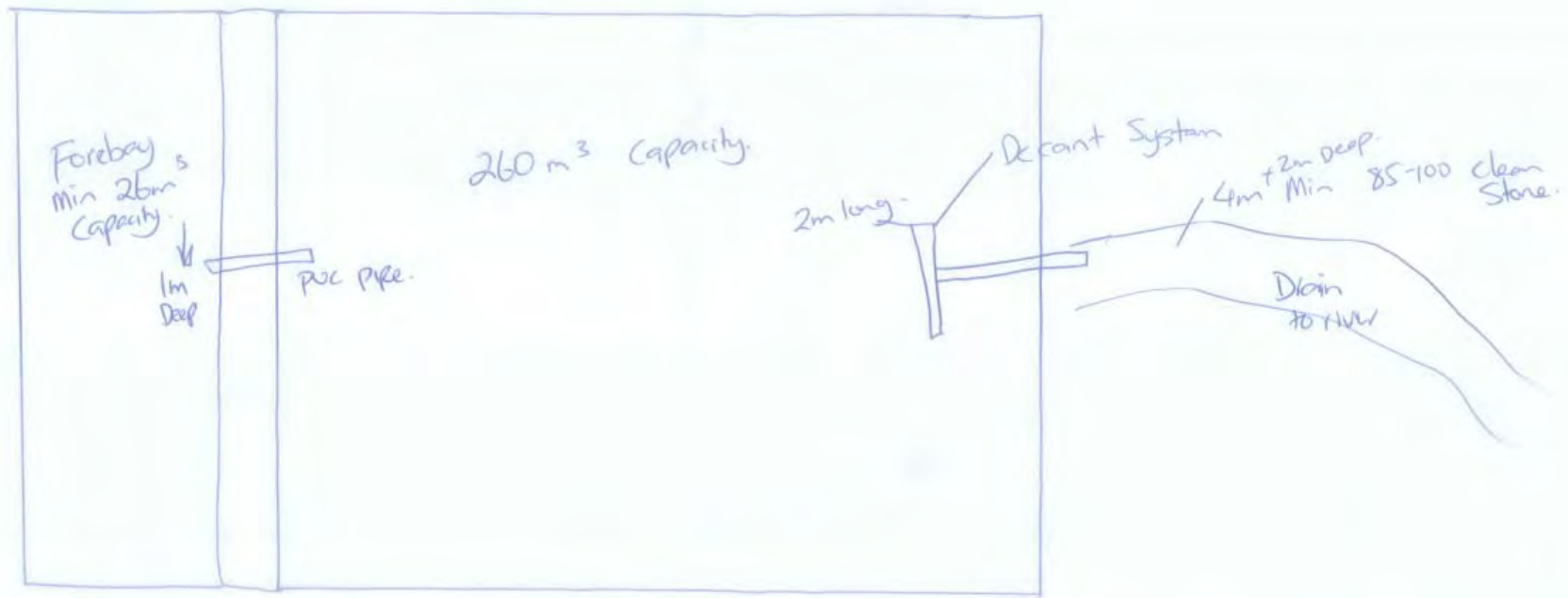
For and on behalf of
Taranaki Regional Council

A D McLay
Director - Resource Management

Appendix 1: Pond design

1.3 Ha area total @ 2% = 260 m³

T bar decant



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

Name of
Consent Holder: OW Burgess & TH Crowley Partnership
[Owen Wayne Burgess & Thomas Harold Crowley]
P O Box 150
INGLEWOOD 4347

Decision Date: 30 July 2010

Review Completed 30 July 2010 [Granted: 15 December 2004]
Date:

Conditions of Consent

Consent Granted: To discharge cleanfill onto and into land for quarry
reinstatement purposes at or about (NZTM)
1717122E-5643560N

Expiry Date: 1 June 2022

Review Date(s): June 2010, June 2016

Site Location: East Road, Toko, Stratford

Legal Description: Pt Lots 9 & 14 DP 141 Blk III Ngaere SD

Catchment: Patea

General conditions

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

Special conditions

1. The exercise of this consent shall be undertaken in accordance with the documentation submitted in support of application 3439, but subject to the conditions of this consent. In the case of any contradiction between the documentation submitted in support of application 3439 and the conditions of this consent, the conditions of this consent shall prevail.
2. The contaminants to be discharged shall be limited to cleanfill and/or inert materials. For the purposes of this condition, "clean fill and inert materials" are defined as materials consisting of any concrete, cement or cement wastes, bricks, mortar, tiles [clay, ceramic or concrete], non-tanalised timber, porcelain, glass, gravels, boulders, shingles, fibreglass, plastics, sand, soils and clays, and/or tree stumps and roots, whether singly or in combination or mixture, or any other material [subject to conditions 3 & 5] that when placed onto and into land will not render that land or any vegetation grown on that land toxic to vegetation or animals consuming vegetation.
3. The discharge of the following contaminants shall not occur: food wastes, paper and cardboard, grass clippings, garden wastes including but not limited to wastes containing foliage or other vegetation [other than tree stumps and roots as permitted under condition 2], textiles, steel, galvanised metals, construction materials containing paint or fillers or sealers or their containers, oils or greases or any liquids or sludges or their containers, any industrial process by-products other than as permitted under condition 2, any poisons or solvents or their containers, batteries, general domestic refuse not otherwise described, or any wastes with the potential to render land or any vegetation grown on the land toxic to vegetation or to animals consuming such vegetation.
4. If the consent holder is uncertain as to the acceptability or not of a certain material the consent holder shall obtain written approval from the Consents Manager, Taranaki Regional Council, prior to its discharge.
5. The discharge to land shall not result in any contaminant entering surface water or groundwater.

Consent 6505-1

6. Silt retention structures shall be installed and maintained to the satisfaction of the Chief Executive, Taranaki Regional Council.
7. The consent holder shall install and maintain stormwater diversion drains to minimise stormwater movement across, or ponding on the site, to the satisfaction of the Chief Executive, Taranaki Regional Council.
8. Within three months of granting of this consent the consent holder shall prepare and maintain a cleanfill management plan to the satisfaction of the Chief Executive, Taranaki Regional Council, and shall adhere to such plan in so far as it concerns the exercise of this consent at all times.
9. Notwithstanding any conditions within this consent, the consent holder shall at all times adopt the best practicable option or options [as defined in section 2 of the Resource Management Act 1991] to prevent or minimise any actual or potential effect on the environment arising from any discharge at the site.
10. Upon completion of the works associated with the exercise of this consent, the discharge site covered by this consent shall be stabilised and revegetated to the satisfaction of the Chief Executive, Taranaki Regional Council.
11. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2010 and/or June 2016, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 30 July 2010

For and on behalf of
Taranaki Regional Council

Director-Resource Management

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

Name of
Consent Holder: Burgess Crowley Partnership
P O Box 150
INGLEWOOD 4347

Decision Date: 10 September 2012

Commencement
Date: 10 September 2012

Conditions of Consent

Consent Granted: To discharge stormwater from a quarry site into the 'Toko Wetland' in the Patea River catchment at or about (NZTM) 1717192E-5643348N

Expiry Date: 1 June 2028

Review Date(s): June 2014, June 2016, June 2019, June 2022

Site Location: 526 East Road, Stratford (Property Lessee: C Johnstone)

Legal Description: Pt Lot 14 DP 141 (Discharge source and site)

Catchment: Patea

*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. Any discharge from the quarry shall be treated in a settlement pond of no less than 6000 m³.
2. The consent holder shall ensure that the quarrying operations are implemented in progressive stages, with only one active area of the quarry being open at any one time. This shall be undertaken in accordance with the details provided in the map and table attached as Appendix 2.
3. Within 3 months of the commencement of work on any new stage of the quarrying operations, the consent holder shall ensure that the previous stage of quarrying operations is reinstated to the satisfaction of the Chief Executive, Taranaki Regional Council.
4. This consent does not authorise discharge from any aggregate washing.
5. The active quarry site shall be contoured and bunded so that all water in this area is directed to the settlement pond for treatment prior to discharge, and the flow of uncontaminated stormwater into this area is prevented, as far as is practicable.
6. The concentration of Suspended Solids shall not exceed 50 gm⁻³ in any discharge. This condition shall apply prior to the entry of any discharge into the receiving waters of the unnamed tributary of the Patea River, at the Taranaki Regional Council's designated sampling point **STW002029**.
7. After allowing for reasonable mixing within a mixing zone extending 10 metres downstream of the discharge point, the discharge shall not give rise to any of the following effects in the receiving waters of the unnamed tributary of the Patea River:
 - a) the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials;
 - b) any conspicuous change in the colour or visual clarity;
 - c) any emission of objectionable odour;
 - d) the rendering of fresh water unsuitable for consumption by farm animals;
 - e) any significant adverse effects on aquatic life.
8. This consent shall lapse on 30 September 2017, unless the consent is given effect to before the end of that period or the Taranaki Regional Council fixes a longer period pursuant to section 125(1)(b) of the Resource Management Act 1991.

Consent 7963-1

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 2016 and/or June 2019 and/or June 2022, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 10 September 2012

For and on behalf of
Taranaki Regional Council

Director-Resource Management

Appendix 2 – Map and table showing the staged development of the Toko quarry



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

Name of
Consent Holder: Burgess Crowley Partnership
PO Box 150
Inglewood 4347

Decision Date
(Change): 11 September 2018

Commencement Date
(Change): 11 September 2018 (Granted Date: 10 September 2012)

Conditions of Consent

Consent Granted: To take and divert groundwater in the vicinity of the Patea River and the 'Toko Wetland' incidental to quarrying activities

Expiry Date: 1 June 2028

Review Date(s): June 2019, June 2022

Site Location: 526 East Road, Stratford

Grid Reference (NZTM) 1717171E-5643429N

Catchment: Patea

*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. Before 30 November 2018, the consent holder shall install, and thereafter maintain:
 - (a) a piezometer that enables monitoring of the groundwater level between the active quarry and the wetland at a location approved by the Chief Executive, Taranaki Regional Council; and
 - (b) a staff gauge that monitors the water level in the Toko Wetland.

Within 3 months of being installed the piezometer and the staff gauge shall have their elevations determined by a survey so that the water level in each can be measured to the same datum.

2. The consent holder shall maintain a record of the water levels in the piezometer and the water levels in the staff gauge (to an accuracy of ± 10 mm) by recording the water levels and the date and time of the reading at monthly intervals. This record shall be provided to the Chief Executive, Taranaki Regional Council, no later than 31 July of each year, or earlier upon request.
3. The piezometer shall be accessible to Taranaki Regional Council officer's at all reasonable times for inspection.
4. This consent shall lapse on 30 September 2017, unless the consent is given effect to before the end of that period or the Taranaki Regional Council fixes a longer period pursuant to section 125(1)(b) of the Resource Management Act 1991.
5. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2014 and/or June 2016 and/or June 2019 and/or June 2022, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 11 September 2018

For and on behalf of
Taranaki Regional Council

A D McLay
Director - Resource Management

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

Name of
Consent Holder: Surrey Road Quarry
37 Brookes Street
Inglewood 4330

Decision Date 8 June 2005

Commencement Date 8 June 2005

Conditions of Consent

Consent Granted: To discharge treated stormwater and treated washwater from a quarry site onto and into land and into an unnamed tributary of the Mangamawhete Stream a tributary of the Manganui River in the Waitara catchment

Expiry Date: 1 June 2021

Site Location: Norfolk Road, Inglewood

Grid Reference (NZTM) 1701420E-5652480N

Catchment: Waitara

Tributary: Manganui
Mangamawhete

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

General conditions

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

Special conditions

1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this resource consent.
2. The exercise of this consent shall be undertaken generally in accordance with the documentation submitted in support of application 3575 and to ensure that the conditions of this consent are met at all times. In the case of any contradiction between the documentation submitted in support of application 3575 and the conditions of this consent, the conditions of this consent shall prevail.
3. There shall be no direct discharge of untreated stormwater or washwater from the quarry into the unnamed tributary of the Mangamawhete Stream, as a result of the exercise of this consent.
4. The active quarry site shall be contoured/bunded so that all water generated in this area is directed to the silt control structures for treatment prior to discharge, and the flow of uncontaminated stormwater into this area is prevented.
5. The consent holder shall undertake measures during excavation to control erosion of exposed areas within the quarry site and to minimise the amounts of sediment contained in the stormwater discharge licensed by this consent.
6. The consent holder shall operate and progressively reinstate the quarry site in a manner which ensures that the area of exposed, unvegetated earth within the quarry's stormwater catchment is kept to a minimum at all times. Only rock and soil derived from the quarry site shall be used for reinstatement.
7. On reinstatement of the area described as quarry Block A the consent holder shall fence off of a riparian buffer zone of at least 15 metres wide on the Mangamawhete Stream in the section shown as proposed fencing on Conservation Plan CP195.

Consent 6569-1

8. Stock shall be excluded from accessing the active area of quarry Blocks A, B and C at all times.
9. The maximum disturbed stormwater catchment area shall be no more than two hectares at any one time.
10. The consent holder shall maintain a minimum riparian management zone of 13 metres wide in all areas covered under CP195.
11. The consent holder shall properly and efficiently maintain and operate the silt control structures in such a manner that any discharge which may occur shall not breach the conditions of this consent. The silt control structures shall be operated, as far as practicable, so as to maximise the treatment of the stormwater and washwater, and to minimise the duration and frequency of the discharge.
12. The following concentrations shall not be exceeded in the discharge:

Component	Concentration
pH (range)	6-9
total recoverable hydrocarbons [infrared spectroscopic technique]	15 gm ⁻³
Suspended solids	100 gm ⁻³

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

13. After allowing for reasonable mixing within a mixing zone extending 25 metres downstream of the confluence between the unnamed tributary and the Mangamawhete Stream, the discharge shall not give rise to any of the following effects in the receiving waters of the Mangamawhete Stream:
 - a) the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended material;
 - 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.
14. After allowing for reasonable mixing, within a mixing zone extending 25 metres downstream of the confluence of the unnamed tributary and Mangamawhete Stream, the discharge shall not give rise to an increase in the turbidity of Mangamawhete Stream of more than 50%, as determined using NTU [nephelometric turbidity units].
15. Prior to the exercise of this consent, the consent holder shall provide a site plan, stormwater management plan, and contingency plan to the Taranaki Regional Council. These plans are to outline the measures and procedures to be undertaken to prevent the spillage or accidental discharge of contaminants into the stormwater catchment, and measures to avoid, remedy or mitigate environmental effects from the exercise of this consent.

Consent 6569-1

16. On cessation of quarrying operations or prior to the surrender or lapsing of this consent at the site licensed by this consent, the active quarry area, including the silt control structures, and surrounding areas shall be reinstated to the satisfaction of the Chief Executive, Taranaki Regional Council.
17. 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.
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 review during the month of June 2007 and/or June 2009 and/or June 2015, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Transferred at Stratford on 1 June 2018

For and on behalf of
Taranaki Regional Council

A D McLay
Director - Resource Management

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

Name of
Consent Holder: Dennis Mark & Diane Lillian Bourke
158 Onewhaia Road
R D 13
HAWERA 4673

Decision Date: 19 January 2012

Commencement
Date: 19 January 2012

Conditions of Consent

Consent Granted: To discharge treated stormwater from a quarry site
into the Waingongoro River at or about (NZTM)
1707444E-5627164N

Expiry Date: 1 June 2029

Review Date(s): June 2017, June 2023

Site Location: Onewhaia Road, Te Roti

Legal Description: Te-Rua-O-Te-Moko 1C1 Pt 1C2 Blk I Hawera SD
(Discharge source & site)

Catchment: Waingongoro

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

General condition

- a. The consent holder shall pay to the Taranaki Regional Council all the administration, monitoring and supervision costs of this consent, fixed in accordance 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. No aggregate washing shall take place at the quarry site.
3. All runoff from any unvegetated area shall pass through a settlement pond or sediment trap with a minimum total capacity of:
 - a) 100 cubic metres for every hectare of exposed soil between 1 November to 30 April; and
 - b) 200 cubic metres for every hectare of exposed soil between 1 May to 31 October;unless other sediment control measures that achieve an equivalent standard are agreed to by the Chief Executive of the Taranaki Regional Council.
4. There shall be no direct discharge of untreated stormwater into surface water as a result of the exercise of this consent.
5. The active quarry site shall be contoured/bunded to:
 - ensure that all water generated in this area is directed to the stormwater treatment system prior to discharge; and
 - prevent the flow of uncontaminated stormwater into this area.
6. Constituents of the discharge shall meet the standards shown in the following table.

<u>Constituent</u>	<u>Standard</u>
suspended solids	Concentration not greater than 200 gm ⁻³
oil and grease	Concentration not greater than 15 gm ⁻³

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

7. After allowing for reasonable mixing, within a mixing zone extending 25 metres downstream of the confluence with the unnamed tributary with the Patea River, the discharge shall not give rise to any or all of the following effects in the receiving water of the Patea River:
 - a) an increase of pH by more than 0.5 pH units;
 - b) the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials;
 - c) any conspicuous change in colour or visual clarity;
 - d) any emission of objectionable odour;
 - e) the rendering of fresh water unsuitable for consumption by farm animals;
 - f) any significant adverse effects on aquatic life.

Consent 5001-2

8. 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.
9. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2017 and/or June 2023 for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 19 January 2012

For and on behalf of
Taranaki Regional Council

Director-Resource Management

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

Name of
Consent Holder: Dennis Mark & Diane Lillian Bourke
158 Onewhaia Road
RD 13
Hawera 4673

Decision Date: 12 June 2014

Commencement Date: 12 June 2014

Conditions of Consent

Consent Granted: To discharge treated contaminated water, from the dewatering of excavations at a quarry site, onto land and into the Waingongoro River

Expiry Date: 01 June 2029

Review Date(s): June 2017, June 2023

Site Location: Onewhaia Road, Te Roti

Legal Description: Te-Rua-O-Te-Moko 1C1 Pt 1C2 Blk I Hawera SD
(Discharge source & site)

Grid Reference (NZTM) Between 1707368E-5627083N & 1707328E-5627118N
(Drain & skimmer pits) &
1707311E-5627097N (Discharge point)

Catchment: Waingongoro

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

General condition

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

Special conditions

1. All contaminated groundwater shall be directed through the newly constructed drains and treated in a settlement pond, constructed between approximate grid references (NZTM) 1707368E-5627083N and 1707328E-5627118N, prior to the discharge into the Waingongoro River.
2. The settlement pond shall have capacity of no less than 168 m³.
3. The discharge outlet into the Waingongoro River shall be designed and located such that there will be no backflow from the river into the settlement pond.
4. The consent holder shall properly maintain and operate the settling pond system, including the use of shut off valves, in such a manner that any discharge which may occur does not breach the conditions of this consent. The settling pond system shall be operated, as far as practicable, so as to minimise the duration and frequency of discharges.
5. There shall be no direct discharge of untreated contaminated groundwater into any surface water.
6. The consent holder shall at all times adopt the best practicable option, as defined in the Resource Management Act 1991, to prevent or minimise any adverse effects of the discharge to the environment.
7. 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 ⁻³
total hydrocarbons	Concentration not greater than 15 gm ⁻³

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

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

Consent 9933-1.0

9. After allowing for reasonable mixing, within a mixing zone extending 25 metres downstream of any discharge point, the discharge shall not give rise to any of the following effects in the receiving waters:
 - a) an increase in the suspended solids concentration within the Waingongoro River in excess of 10 grams per cubic metre when the turbidity as measured immediately upstream of the discharge point is equal to or less than 5 NTU (nephelometric turbidity units); or
 - b) an increase in the turbidity within the Waingongoro River of more than 50%, where the stream turbidity measured upstream if the discharge is greater than 5 NTU, as determined using NTU.
10. The treatment system shall be bunded, with silt control measures permanently installed around the bund, to prevent the inflow of stormwater from any other surrounding areas of the quarry.
11. The consent holder shall maintain and regularly update a 'Contingency Plan' that details measures and procedures that will be undertaken in the event of spillage or accidental discharge of contaminants not authorised by this consent. The plan shall be approved by the Chief Executive, Taranaki Regional Council, acting in a certification capacity as being adequate to avoid, remedy or mitigate the environmental effects of such an event.
12. 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.
13. 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.
14. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2017 and/or June 2023, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 12 June 2014

For and on behalf of
Taranaki Regional Council

A D McLay
Director - Resource Management

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

Name of
Consent Holder: Dennis Mark & Diane Lillian Bourke
158 Onewhaia Road
RD 13
Hawera 4673

Decision Date: 12 June 2014

Commencement Date: 12 June 2014

Conditions of Consent

Consent Granted: To take groundwater incidental to quarry operations in the vicinity of the Waingongoro River

Expiry Date: 01 June 2029

Review Date(s): June 2017, June 2023

Site Location: Onewhaia Road, Te Roti

Legal Description: Te-Rua-O-Te-Moko 1C1 Pt 1C2 Blk I Hawera SD
(Site of take)

Grid Reference (NZTM) 1707328E-5627118N

Catchment: Waingongoro

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

General condition

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

Special conditions

1. The taking of groundwater shall be incidental to the quarrying activities at the site.
2. The consent holder shall notify the Chief Executive, Taranaki Regional Council, in writing of the date that the activity is expected to commence. Notification shall occur by email to worknotification@trc.govt.nz and be provided at least 2 working days before.
3. At all times the consent holder shall adopt the best practicable option to prevent or minimise any actual or likely adverse effect on the environment associated with the abstraction of groundwater.
4. 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.
5. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2017 and/or June 2023, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 12 June 2014

For and on behalf of
Taranaki Regional Council

A D McLay
Director - Resource Management

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

Name of
Consent Holder: Hey Trust
 224 Monmouth Road
 R D 24
 STRATFORD

Consent Granted
Date: 10 July 2007

Conditions of Consent

Consent Granted: To discharge treated stormwater from a quarry site onto
 and into land and into the Kahouri Stream in the Patea
 catchment at or about 2618825E-6210055N

Expiry Date: 1 June 2022

Review Date(s): June 2010, June 2016

Site Location: 224 Monmouth Road, Stratford

Legal Description: Lot 2 DP 307233 Blk XIII Huiroa SD

Catchment: Patea

Tributary: Kahouri

Consent 7123-1

General conditions

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

Special conditions

1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent.
2. The exercise of this consent shall be undertaken generally in accordance with the documentation submitted in support of application 4660 and to ensure that the conditions of this consent are met at all times. In the case of any contradiction between the documentation submitted in support of application 4660 and the conditions of this consent, the conditions of this consent shall prevail.
3. There shall be no direct discharge of untreated stormwater from the quarry into the Kahouri Stream as a result of the exercise of this consent.
4. The active quarry site shall be contoured and/or bunded so that all water generated in this area is directed to the silt control structures for treatment prior to discharge; and the flow of uncontaminated stormwater into this area is prevented.
5. The consent holder shall undertake measures during excavation to control erosion of exposed areas within the quarry site and to minimise the amounts of sediment contained in the stormwater discharge licensed by this consent.
6. The consent holder shall operate and progressively reinstate the quarry site in a manner which ensures that the area of exposed, unvegetated earth within the quarry's stormwater catchment is kept to a minimum at all times.
7. The maximum disturbed stormwater catchment area shall be no more than 1.0 hectare at any one time.

Consent 7123-1

8. The consent holder shall maintain and operate the silt control structures in such a manner that any discharge which may occur shall not breach the conditions of this consent. The silt control structures shall be operated, as far as practicable, so as to maximise the treatment of the stormwater, and to minimise the duration and frequency of the discharge.

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

Component	Concentration
total recoverable hydrocarbons [infrared spectroscopic technique]	15 gm ⁻³
suspended solids	100 gm ⁻³

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

10. After allowing for reasonable mixing, within a mixing zone extending 25 metres downstream of the discharge point to the Kahouri Stream, the discharge shall not give rise to any of the following effects in the receiving waters of the Kahouri Stream:

- a) the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended material;
- 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.

11. After allowing for reasonable mixing, within a mixing zone extending 25 metres downstream of the discharge point to the Kahouri Stream, the discharge shall not give rise to an increase in turbidity of more than 50 % in the Kahouri Stream, as determined by NTU [nephelometric turbidity units].

12. The consent holder shall provide a site plan, stormwater management plan, and contingency plan to the Taranaki Regional Council. These plans are to outline the measures and procedures to be undertaken to prevent the spillage or accidental discharge of contaminants into the stormwater catchment, and measures to avoid, remedy or mitigate environmental effects from the exercise of this consent.

13. On cessation of quarrying operations, or prior to the surrender or lapsing of this consent at the site licensed by this consent, the active quarry area including silt control structures and surrounding areas, shall be reinstated to the satisfaction of the Chief Executive, Taranaki Regional Council.

14. 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.

Consent 7123-1

15. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2010 and/or June 2016, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 10 July 2007

For and on behalf of
Taranaki Regional Council

Director-Resource Management

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

Name of
Consent Holder: Horizon Trust Management Limited
 P O Box 414
 WANGANUI 4540

Decision Date: 7 February 2013

Commencement
Date: 7 February 2013

Conditions of Consent

Consent Granted: To discharge stormwater onto and into land from quarry
 activities at or about (NZTM) 1758327E-5595201N

Expiry Date: 1 June 2028

Review Date(s): June 2016, June 2022

Site Location: 535 Rangitatu West Road, Maxwell

Legal Description: Sec 1 SO 423406 (Discharge source & site)

Catchment: Waitotara

Tributary: Makokako

*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 active area of the quarry shall not exceed 2 hectares at any one time.
2. If any area of soil is exposed, all run off from that area shall pass through settlement ponds or sediment traps with a minimum total capacity of;
 - a) 100 cubic metres for every hectare of exposed soil between 1 November to 30 April; and
 - b) 200 cubic metres for every hectare of exposed soil between 1 May to 31 October; unless other sediment control measures that achieve an equivalent standard are agreed to by the Chief Executive of the Taranaki Regional Council.
3. All earthworked areas shall be stabilised vegetatively or otherwise as soon as is practicable immediately following completion of soil disturbance activities.
4. 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.
5. This consent shall lapse on 31 March 2018, unless the consent is given effect to before the end of that period or the Taranaki Regional Council fixes a longer period pursuant to section 125(1)(b) of the Resource Management Act 1991.
6. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2016 and/or June 2022, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 7 February 2013

For and on behalf of
Taranaki Regional Council

Chief Executive

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

Name of Consent Holder: Horizon Trust Management Limited
PO Box 414
Wanganui 4540

Decision Date: 10 August 2009

Commencement Date: 10 August 2009

Conditions of Consent

Consent Granted: To discharge treated stormwater and washwater onto and into land from quarry activities

Expiry Date: 1 June 2024

Review Date(s): June 2018

Site Location: Waiteika Road, Opunake

Grid Reference (NZTM) 1680465E-5634766N

Catchment: Waiteika

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

General conditions

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

Special conditions

1. The active area of the quarry shall not exceed 1.5 hectares at any one time.
2. If any area of soil is exposed, all run off from that area shall pass through settlement ponds or sediment traps with a minimum total capacity of;
 - a) 100 cubic metres for every hectare of exposed soil between 1 November to 30 April; and
 - b) 200 cubic metres for every hectare of exposed soil between 1 May to 31 October;unless other sediment control measures that achieve an equivalent standard are agreed to by the Chief Executive of the Taranaki Regional Council.
3. At least 7 working days prior to the commencement of works the consent holder shall notify the Taranaki Regional Council of the proposed start date for the work. Notification shall include the consent number and a brief description of the activity consented and shall be emailed to worknotification@trc.govt.nz. Notification by fax or post is acceptable only if the consent holder does not have access to email.
4. All earthwork areas shall be stabilised vegetatively or otherwise as soon as is practicable immediately following completion of soil disturbance activities.
5. This consent shall lapse on 30 September 2014, unless the consent is given effect to before the end of that period or the Taranaki Regional Council fixes a longer period pursuant to section 125(1)(b) of the Resource Management Act 1991.

Consent 7519-1

6. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2012 and/or June 2018, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Transferred at Stratford on 22 November 2016

For and on behalf of
Taranaki Regional Council



A D McLay
Director - Resource Management

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 culvert pipe shall have a diameter no less than 600 mm and be no longer than 7.5 metres.
2. The fill over the top of the culvert pipe shall be no deeper than 1.5 metres.
3. The consent holder shall notify the Chief Executive, Taranaki Regional Council, in writing at least 48 hours prior to the commencement and upon completion of the initial installation and again at least 48 hours prior to and upon completion of any subsequent maintenance works which would involve disturbance of or deposition to the river bed or discharges to water. Notification shall include the consent number and a brief description of the activity consented and be emailed to worknotification@trc.govt.nz. Notification by fax or post is acceptable only if the consent holder does not have access to email.
4. The consent holder shall ensure that the area and volume of riverbed disturbance shall, so far as practicable, be minimised and any areas which are disturbed shall, so far as is practicable, be reinstated.
5. The culvert shall not obstruct fish passage.
6. The invert of the culvert shall at all times be slightly lower than the level of the surrounding riverbed so that it fills with bed material and simulates the natural bed.
7. The gradient of the culvert shall be no steeper than the natural gradient of the stream at the site.
8. The consent holder shall take all reasonable steps to:
 - a. minimise the amount of sediment discharged to the stream;
 - b. minimise the amount of sediment that becomes suspended in the stream; and
 - c. mitigate the effects of any sediment in the stream.

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

Consent 7522-1

9. Except with the written agreement of the Chief Executive, Taranaki Regional Council, the culvert shall be removed and the area reinstated, if and when it is no longer required. A further resource consent may be required to authorise the removal of the structure, and the consent holder is advised to seek advice from the Council on this matter.
10. This consent shall lapse on 30 September 2014, unless the consent is given effect to before the end of that period or the Taranaki Regional Council fixes a longer period pursuant to section 125(1)(b) of the Resource Management Act 1991.
11. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2012 and/or June 2018, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Transferred at Stratford on 22 November 2016

For and on behalf of
Taranaki Regional Council

A D McLay
Director - Resource Management

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 quarry activity shall be carried out in accordance with the details provided in the application and in particular, the following documents:
 - a) Proposed stream realignment and piping plan - Appendix 3 attached to this consent; and
 - b) Indicative stream reinstatement plan – Appendix 4 attached to this consent.

In the case of any contradiction between the application details and the conditions of this consent, the conditions of this consent shall prevail.

2. The stormwater discharged shall be from a catchment area not exceeding 7.73 hectares.
3. At least 30 days prior to commencing quarrying in each stage, the consent holder shall prepare, and subsequently maintain, a detailed stormwater management plan that documents how the site will be managed to ensure that stormwater and groundwater is adequately managed and treated prior to the discharge into the stream. Details of the management of each site shall include, but not necessarily limited to, the:
 - a) area and location of the stage to be quarried;
 - b) protection/diversion/modification of streams;
 - c) treatment of stormwater and incidental groundwater, prior to the discharge into surface water; and
 - d) measures and procedures to be undertaken to prevent the spillage of accidental discharge of contaminants in the stormwater catchment, and measures to avoid, remedy or mitigate the environmental effects of such spillage.

The consent holder shall forward the stormwater management plan to the Chief Executive, Taranaki Regional Council and Te Runanga o Ngaati Ruanui Trust. Te Runanga o Ngaati Ruanui Trust may provide comments to the Taranaki Regional Council within 20 working days of receipt. The final stormwater plan shall be certified by the Chief Executive, Taranaki Regional Council and followed at all times.

4. The consent holder shall install, properly maintain and operate the system of settling ponds as proposed and required in condition 1 of this consent, including the use of shut off valves, in such a manner that any discharge which may occur does not breach the conditions of this consent. The settling ponds system shall be operated, as far as practicable, so as to minimise the duration and frequency of discharges.

Consent 7845-1.1

5. If any area of soil is exposed, all run off from that area shall pass through settlement ponds or sediment traps with a minimum total capacity of;
 - a) 100 cubic metres for every hectare of exposed soil between 1 November to 30 April; and
 - b) 200 cubic metres for every hectare of exposed soil between 1 May to 31 October;

unless other sediment control measures that achieve an equivalent standard are agreed to by the Chief Executive of the Taranaki Regional Council.

6. The obligation described in condition 5 above shall cease to apply, and accordingly the erosion and sediment control measures can be removed, in respect of any particular site or area of any site, only when the site is stabilised.

Note: For the purpose of this condition "stabilised" in relation to any site or area means inherently resistant to erosion or rendered resistant, such as by using rock or by the application of basecourse, colluvium, grassing, mulch, or another method to the reasonable satisfaction of the Chief Executive, Taranaki Regional Council and as specified in the Taranaki Regional Council's Guidelines for Earthworks in the Taranaki Region, 2006. Where seeding or grassing is used on a surface that is not otherwise resistant to erosion, the surface is considered stabilised once, on reasonable visual inspection by an officer of the Taranaki Regional Council, an 80% vegetative cover has been established.

7. There shall be no direct discharge of untreated stormwater or groundwater from the active quarry site into any surface water.
8. At least 7 working days prior to the commencement of each stage of the quarry activity, the consent holder shall notify the Taranaki Regional Council and Te Runanga o Ngaati Ruanui Trust of the proposed start date for the work. Notification shall include the consent number and a brief description of the activity consented and shall be emailed to worknotification@trc.govt.nz and gml@ruanui.co.nz.
9. The consent holder shall at all times adopt the best practicable option, as defined in the Resource Management Act 1991, to prevent or minimise any adverse effects of the discharge to the environment.
10. The consent holder shall operate and progressively reinstate each stage of the quarry, prior to commencement of the next stage, in a manner which ensures that the area of exposed, un-vegetated earth, within the quarry's stormwater catchment is kept to a minimum at all times.
11. 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 ⁻³
total recoverable hydrocarbons	Concentration not greater than 15 gm ⁻³

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

Consent 7845-1.1

12. After allowing for reasonable mixing, within a mixing zone extending 25 metres downstream of any discharge point, the discharge shall not give rise to any of the following effects in the receiving waters:
 - a) an increase in the suspended solids concentration in the receiving water in excess of 10 grams per cubic metres when the turbidity as measured immediately upstream of the discharge point is equal to or less than 5 NTU (nephelometric turbidity units); or
 - b) an increase in the turbidity in the receiving water of more than 50%, where the stream turbidity measured upstream if the discharge is greater than 5 NTU, as determined using NTU (nephelometric turbidity units).
13. The consent holder shall notify the Chief Executive, Taranaki Regional Council and Te Runanga o Ngaati Ruanui Trust, 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 and gml@ruanui.co.nz.
14. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2016 and/or June 2018, and/or June 2020, and/or June 2022, and/or June 2024, and/or June 2026, and/or June 2028 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 22 November 2016

For and on behalf of
Taranaki Regional Council

A D McLay
Director - Resource Management

Appendix 3: The proposed stream realignment and piping plan



- Piped tributary of the Waingongoro River (for retrospective consent)**
- Existing stream to be realigned, prior to the commencement of stage C.**
- Existing stream, partly quarried into a waterfall, to be piped, prior to the commencement of Stage A, to be day-lighted following the completion of Stage D.**
- Stream section to be piped prior to the commencement of Stage C quarrying, to be day-lighted following the completion of Stage D.**
- Stream section to be realigned, and to remain, as an open channel, prior to the commencement of Stage C. The stream shall be fenced and its margins riparian planted immediately following completion of the realignment.**
- Proposed wetland**

Appendix 4: Indicative Stream Reinstatement Plan



Following the completion of the quarrying operation:

- - - - - Piped stream to remain piped
- = = = = = Piped stream sections to be 'day-lighted' to join the existing open channel upstream
- — — — — Open stream to remain open
- Proposed wetland

All open streams and wetland to be fenced and their margins riparian planted in accordance with the revised Riparian Management Plan prepared for the site.:

Land Use Consent
Pursuant to the Resource Management Act 1991
a resource consent is hereby granted by the
Taranaki Regional Council

Name of
Consent Holder: Horizon Trust Management Limited
PO Box 414
Wanganui 4540

Decision Date: 29 July 2015

Commencement Date: 19 August 2015

Conditions of Consent

Consent Granted: To realign and install piping in sections of two unnamed tributaries of the Waingongoro River, including associated disturbance and reclamation of the streambed

Expiry Date: 1 June 2029

Review Date(s): June 2017, June 2023

Site Location: 277 Whenuku Road, Hawera

Grid Reference (NZTM) Between 1705816E-5623165N & 1705908E-5623151N (piping - retro);
Between 1705908E-5623151N & 1706084E-5623270N (temporary piping - retro, then open channel);
Between 1705908E-5623151N & 1705976E-5623105N; &
Between 1705976E-5623105N & 1706073E-5623130N; &
Between 1706073E-5623130N & 1706115E-5623087N; (temporary piping, then open channel);
Between 1706115E-5623087N & 1706163E-5623137N (open channel)
1706174E – 5623160N (proposed wetland)

Catchment: Waingongoro

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

General condition

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

Special conditions

1. This consent authorises the laying of piping and subsequently filling the piped reach, in accordance with the details provided with the application, between approximate grid references (NZTM):
 - a) Between 1705816E-5623165N & 1705908E-5623151N (A), in approximately 235 metres of stream;
 - b) Between 1705908E-5623151N & 1706084E-5623270N (B), in approximately 95 metres of stream;
 - c) Between 1705908E-5623151N & 1705976E-5623105N (C), in approximately 90 metres of stream;
 - d) Between 1705976E-5623105N & 1706073E-5623130N (D), in approximately 115 metres of stream; and
 - e) Between 1706073E-5623130N & 1706115E-5623087N (E), in approximately 60 metres of stream.

In the case of any contradiction between the details and the conditions of this consent, the conditions of this consent shall prevail.

2. The piping shall have a diameter no less than 315 mm.
3. This consent also authorises the permanent diversion of the full stream flow through a reconstructed channel, and the reclamation of the stream channel between approximate grid references (NZTM) 1706115E-5623087N & 1706163E-5623137N.
4. The new stream channel shall have:
 - a) have a bed width of no less than 0.4 metres;
 - b) have a channel depth of no less than 0.7 metres; and
 - c) be no steeper than 0.056, being 1 vertical to 18 horizontal.
5. Following the cessation of the quarry operation, the consent holder shall ensure that the piping in the piped streams between the following grid references are removed and fenced and the new stream margins riparian planted, in accordance with the riparian management plan (RMP90388) for the property, between (NZTM):
 - a) 1705908E-5623151N & 1706084E-5623270N (B);
 - b) 1705908E-5623151N & 1705976E-5623105N (C);
 - c) 1705976E-5623105N & 1706073E-5623130N (D); and
 - d) 1706073E-5623130N & 1706115E-5623087N (E).

Consent 10017-1.0

6. The new stream channel shall have the same dimensions as specified in condition 4 above.
7. At the time of implementing the permanent diversion as authorised in condition 5 of this consent, the consent holder shall also construct a wetland at approximate grid reference (NZTM) 1706174E-5623160N.
8. The wetland shall be no less than 100 m² in area and shall be dish-shaped with shallow sloping margins at a maximum depth of 1 metre. The wetland shall be fenced and riparian planted in accordance with RMP90388 for the site. The consent holder shall send a plan of the wetland riparian planting to Te Runanga o Ngaati Ruanui Trust, Fish and Game NZ and Te Korowai o Ngāruahine who may provide comments within 20 working days of its receipt. The consent holder shall advise the Chief Executive, Taranaki Regional Council, once the plan of the wetland riparian planting is sent to Te Runanga o Ngaati Ruanui Trust, Fish and Game NZ and Te Korowai o Ngāruahine for comment.
9. No in-stream works shall take place between 1 May and 31 October inclusive.
10. The consent holder shall ensure that following the removal of piping from the stream channel as required by condition 5, the completed structure shall not obstruct fish passage.
11. The area of works shall be recontoured to ensure that when the capacity of the pipes is exceeded, all excess water flows to a clearly defined secondary flow path (which generally follows the route of the reclaimed stream) into the unnamed tributary of the Waingongoro River.
12. The defined secondary flow path described in condition 11 above shall have a minimum depth of 0.5 metres minimum bottom width of 5 metres with side slopes no steeper than 1 vertical to 3 horizontal.
13. The consent holder shall ensure that:
 - a) concrete manholes are installed along the new piping system at intervals no greater than 150 metres;
 - b) bunds, a minimum of 0.5 metre high and no steeper than 1 vertical to 5 horizontal, are placed across the surface depression directly downstream of the manhole on the piped line to capture surface flow into the manhole;
 - c) the manholes have surface inlets; and
 - d) the surface inlets are protected by silt cloth, to ensure that erosion is minimised, until such time as grass cover is achieved.
14. The piping and the secondary flow path shall be maintained to ensure they do not become blocked, and at all times, allow the free flow of water through them.

Consent 10017-1.0

15. On completion of the realignment work:
 - a) the banks of the reconstructed channel shall have a slope no steeper than 1.5 horizontal to 1 vertical;
 - b) the bed of the reconstructed channel shall be at an appropriate grade so as to provide for fish passage; and
 - c) the reconstructed channel shall be armoured with rock to ensure the bed and banks do not erode.
16. Unless otherwise authorised by the Taranaki Regional Council's Rivers Engineer, and following an assessment of the new stream channel, the consent holder shall ensure that rock rip rap armouring:
 - a) is placed across the entire bed length, width and bank of the new stream channel;
 - b) specification be of no less than the following grading:
 - 100% less than 450 mm diameter;
 - 50% greater than 350 mm diameter; and
 - 90% greater than 200 mm diameter.
17. The consent holder shall ensure that at the confluence of the new stream channel with the Waingongoro River, the new channel is armoured with large rock rip rap to the following requirements:
 - a) the rock rip rap shall extend up the banks of the newly formed channel to a height no less than 3 metres above the mean water level of the Waingongoro River;
 - b) the rock rip rap lining of the true left bank of the Waingongoro River at the location of the confluence with new channel shall extend a minimum of eight metres both upstream and downstream and to a height of 3 metres above mean water level;
 - c) the rock armouring shall be rebated into the banks;
 - d) the rock armouring shall extend up the newly formed channel a minimum distance of 10 metres;
 - e) the specification of the rock rip rap shall be of no less the following grading:
 - 100% less than 1000 mm diameter;
 - 50% greater than 750 mm diameter; and
 - 90% greater than 500 mm diameter.
18. The consent holder shall notify the Chief Executive, Taranaki Regional Council, in writing at least 2 working days prior to commencement of each piping and/or realignment work. Notification shall include the consent number and a brief description of the activity consented and be emailed to worknotification@trc.govt.nz.
19. The consent holder shall undertake and maintain fencing and riparian planting for the entire stream length of the streams on the property, in accordance with the Riparian Management Plan for the property (RMP90388).

20. The fencing and riparian planting required under condition 19 above shall be carried out in accordance with the following programme; except that fencing and planting of the new channel, wetland and 'day-lighted' piping works authorised by this consent, shall be completed within 6 months of the completion of each work:

Length of stream bank to be fenced and planted (m)	Completion date
Up to 1000	1 June 2016
1001 to 3000	1000 metres by June 2016, the remainder by June 2017
More than 3000	1000 metres by June 2016, 3000 metres by June 2017, the remainder by June 2018

21. The consent holder shall take all reasonable steps to:
- minimise the amount of sediment discharged to the stream;
 - minimise the amount of sediment that becomes suspended in the stream; and
 - mitigate the effects of any sediment in the stream.

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

22. No vegetation shall be buried within 20 metres of the piped stream.
23. All earthwork areas shall be stabilised as soon as is practicable immediately following completion of soil disturbance activities.

Note: For the purpose of this condition "stabilised" in relation to any site or area means inherently resistant to erosion or rendered resistant, such as by using indurated rock or by the application of basecourse, colluvium, grassing, mulch, or another method to the reasonable satisfaction of the Chief Executive, Taranaki Regional Council and as specified in Taranaki Regional Council's Guidelines for Earthworks in the Taranaki Region, 2006. Where seeding or grassing is used on a surface that is not otherwise resistant to erosion, the surface is considered stabilised once, on reasonable visual inspection by an Investigating Officer, Taranaki Regional Council, an 80% vegetative cover has been established.

24. The works shall remain the responsibility of the consent holder and be maintained so that any erosion, scour or instability of the streambed or banks that is attributable to the works carried out as part of this consent is remedied by the consent holder.
25. In the event that any archaeological remains are discovered as a result of works authorised by this consent, the works shall cease immediately at the affected site and tangata whenua and the Chief Executive, Taranaki Regional Council, shall be notified within one working day. Works may recommence at the affected area when advised to do so by the Chief Executive, Taranaki Regional Council. Such advice shall be given after the Chief Executive has considered: tangata whenua interest and values, the consent holder's interests, the interests of the public generally, and any archaeological or scientific evidence. The New Zealand Police, Coroner, and Historic Places Trust shall also be contacted as appropriate, and the works shall not recommence in the affected area until any necessary statutory authorisations or consents have been obtained.

Consent 10017-1.0

26. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2017 and/or June 2023, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Transferred at Stratford on 22 November 2016

For and on behalf of
Taranaki Regional Council

A D McLay
Director - Resource Management

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 notify the Chief Executive, Taranaki Regional Council, in writing of the date that the activity is expected to commence. Notification shall occur by email to worknotification@trc.govt.nz and be provided at least 2 working days before.
2. At all times the consent holder shall adopt the best practicable option to prevent or minimise any actual or likely adverse effect on the environment associated with the abstraction of groundwater.
3. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2017 and/or June 2023, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Transferred at Stratford on 22 November 2016

For and on behalf of
Taranaki Regional Council

A D McLay
Director - Resource Management

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

Name of
Consent Holder: Windy Point Quarry Limited
PO Box 472
New Plymouth 4340

Decision Date: 28 May 2013

Commencement Date: 28 May 2013

Conditions of Consent

Consent Granted: To discharge stormwater onto and into land from quarrying activities

Expiry Date: 1 June 2028

Review Date(s): June 2022

Site Location: Rangitatau West Road, Waitotara

Grid Reference (NZTM) 1759360E-5595856N

Catchment: Waitotara

Tributary: Makokako

*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 active area of the quarry shall not exceed 2 hectares at any one time.
2. If any area of soil is exposed, all run off from that area shall pass through settlement ponds or sediment traps with a minimum total capacity of;
 - a) 100 cubic metres for every hectare of exposed soil between 1 November to 30 April;
and
 - b) 200 cubic metres for every hectare of exposed soil between 1 May to 31 October;
unless other sediment control measures that achieve an equivalent standard are agreed to by the Chief Executive of the Taranaki Regional Council.
3. All earthworked areas shall be stabilised vegetatively or otherwise as soon as is practicable immediately following completion of soil disturbance activities.
4. 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.
5. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2016 and/or June 2022, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Transferred at Stratford on 19 February 2018

For and on behalf of
Taranaki Regional Council

A D McLay
Director - Resource Management

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

Name of
Consent Holder: Windy Point Quarry Limited
PO Box 472
New Plymouth 4340

Decision Date: 20 November 2014

Commencement Date: 20 November 2014

Conditions of Consent

Consent Granted: To discharge cleanfill onto and into land

Expiry Date: 1 June 2034

Review Date(s): June 2022, June 2028

Site Location: Rangitatau Road West, Maxwell

Grid Reference (NZTM) 1759157E-5595928N

Catchment: Waitotara

Tributary: Makokako

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

General condition

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

Special conditions

1. The discharge of cleanfill shall only occur in the area shaded yellow on the plan attached as Appendix 1.
2. The contaminants to be discharged shall be limited to cleanfill and/or inert materials. For the purposes of this condition, "clean fill and inert materials" are defined as materials consisting of any concrete, cement or cement wastes, bricks, mortar, tiles (clay, ceramic or concrete), cured asphalt, non-tanalised timber, porcelain, glass, gravels, boulders, shingles, fibreglass, plastics, sand, soils and clays, and/or tree stumps and roots, whether singly or in combination or mixture, or any other material (subject to condition 3) that when placed onto and into land will not render that land or any vegetation grown on that land toxic to vegetation or animals consuming vegetation.
3. The discharge of the following contaminants shall not occur: food wastes, paper and cardboard, grass clippings, garden wastes including but not limited to wastes containing foliage or other vegetation (other than tree stumps and roots as permitted under condition 2), textiles, steel, galvanised metals, construction materials containing paint or fillers or sealers or their containers, oils or greases or any liquids or sludges or their containers, any industrial process by-products other than as permitted under condition 2, any poisons or solvents or their containers, batteries, general domestic refuse not otherwise described, or any wastes with the potential to render land or any vegetation grown on the land toxic to vegetation or to animals consuming such vegetation.
4. If the consent holder is uncertain as to the acceptability or not of a certain material the consent holder shall obtain written approval from the Consents Manager, Taranaki Regional Council, prior to its discharge.
5. The discharge to land shall not result in any solid contaminant entering surface water or groundwater.
6. Silt retention structures shall be installed and maintained at the toe of the cleanfill discharge area to minimise silt and sediment discharge. Installing silt retention structures in accordance with *Guidelines for Earthworks in the Taranaki region*, by the Taranaki Regional Council, will achieve compliance with this condition.
7. The consent holder shall install and maintain stormwater diversion drains to minimise stormwater entering the cleanfill discharge area to the satisfaction of the Chief Executive, Taranaki Regional Council.
8. The consent holder shall at all times adopt the best practicable option or options (as defined in section 2 of the Resource Management Act 1991) to prevent or minimise any actual or potential effect on the environment arising from any discharge at the site.

Consent 9972-1.2

9. Upon completion of the cleanfill discharge authorised by this consent, the discharge site shall be stabilised and re-vegetated to the satisfaction of the Chief Executive, Taranaki Regional Council.
10. This consent shall lapse on 31 December 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.
11. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2022 and/or June 2028, 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 19 February 2018

For and on behalf of
Taranaki Regional Council

A D McLay
Director - Resource Management

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

Name of
Consent Holder: R A Wallis Limited
34 Manu Road
R D 11
HAWERA 4671

Decision Date: 19 July 2013

Commencement Date: 19 July 2013

Conditions of Consent

Consent Granted: To discharge stormwater onto and into land from quarrying activities

Expiry Date: 1 June 2029

Review Date(s): June 2017, June 2023

Site Location: 56 Lower Glenn Road, Manaia

Legal Description: Sec 21 Blk VI Waimate SD (Discharge source & site)

Grid Reference (NZTM) 1691855E-5621614N

Catchment: Kaupokonui

*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 active area of the quarry shall not exceed 6 hectares at any one time.
2. All run off from that areas of land that are not stabilised shall pass through settlement ponds or sediment traps with a minimum total capacity of;
 - a) 100 cubic metres for every hectare of exposed soil between 1 November to 30 April; and
 - b) 200 cubic metres for every hectare of exposed soil between 1 May to 31 October;unless other sediment control measures that achieve an equivalent standard are agreed to by the Chief Executive of the Taranaki Regional Council.

Note: For the purpose of this consent "stabilised" in relation to any site or area means inherently resistant to erosion or rendered resistant, such as by using rock or by the application of basecourse, colluvium, grassing, mulch, or another method to the reasonable satisfaction of the Chief Executive, Taranaki Regional Council and as specified in the Taranaki Regional Council's Guidelines for Earthworks in the Taranaki Region, 2006. Where seeding or grassing is used on a surface that is not otherwise resistant to erosion, the surface is considered stabilised once, on reasonable visual inspection by an officer of the Taranaki Regional Council, an 80% vegetative cover has been established.

3. The obligation described in condition 2 above shall cease to apply, and accordingly the erosion and sediment control measures can be removed, in respect of any particular site or area of any site, only when the site is stabilised.
4. All quarried areas shall be stabilised vegetatively or otherwise as soon as is practicable immediately following completion of soil disturbance activities.
5. At least 7 working days prior to the commencement of works the consent holder shall notify the Taranaki Regional Council of the proposed start date for the work. Notification shall include the consent number and a brief description of the activity consented and shall be emailed to worknotification@trc.govt.nz.
6. 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.
7. This consent shall lapse on 30 September 2018, unless the consent is given effect to before the end of that period or the Taranaki Regional Council fixes a longer period pursuant to section 125(1)(b) of the Resource Management Act 1991.

Consent 9600-1

8. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2016 and/or June 2022, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 19 July 2013

For and on behalf of
Taranaki Regional Council

Director-Resource Management

Land Use Consent
Pursuant to the Resource Management Act 1991
a resource consent is hereby granted by the
Taranaki Regional Council

Name of
Consent Holder: R A Wallis Limited
135 Kaupokonui Heads Road
RD 28
Hawera 4678

Decision Date: 25 October 2016

Commencement Date: 25 October 2016

Conditions of Consent

Consent Granted: To disturb the bed of the Kaupokonui Stream

Expiry Date: 1 June 2029

Review Date(s): June 2017, June 2023

Site Location: 56 Lower Glenn Road, Kaupokonui

Grid Reference (NZTM) 1691733E-5621690N

Catchment: Kaupokonui

*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 disturbance of land as described in the application provided to the Taranaki Regional Council on 5 October 2016. In the case of any contradiction between the drawing(s) and the conditions of this consent, the conditions of this consent shall prevail.
2. The consent holder shall maintain the riparian margins of the Kaupokonui Streambed in the vicinity of the application site.
3. The consent holder shall be responsible for the restatement of the Kaupokonui Streambed caused by erosion, erosion, scour or instability associated with the disturbance of land in its vicinity.
4. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2017 and/or June 2023, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 25 October 2016

For and on behalf of
Taranaki Regional Council

A D McLay
Director - Resource Management

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

Name of
Consent Holder: Taunt Contracting Limited
775 Bird Road
R D 23
STRATFORD 4393

Decision Date: 25 August 2010

Commencement
Date: 25 August 2010

Conditions of Consent

Consent Granted: To discharge treated stormwater and washwater from a quarry and shingle washing operation onto and into land and into an unnamed tributary of the Patea River at or about (NZTM) 1718948E-5643337N

Expiry Date: 1 June 2028

Review Date(s): June 2016, June 2022

Site Location: Bird Road, Stratford

Legal Description: Lot 4 DP 349679 [Discharge source & discharge site]

Catchment: Patea

General condition

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

Special conditions

1. The 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. All runoff from any unvegetated area shall pass through settlement ponds or sediment traps with a minimum total capacity of:
 - a) 100 cubic metres for every hectare of exposed soil between 1 November to 30 April; and
 - b) 200 cubic metres for every hectare of exposed soil between 1 May to 31 October;unless other sediment control measures that achieve an equivalent standard are agreed to by the Chief Executive of the Taranaki Regional Council.
3. There shall be no direct discharge of untreated stormwater or washwater into surface water as a result of the exercise of this consent.
4. The active quarry site shall be contoured/bunded to:
 - ensure that all water generated in this area is directed to the stormwater treatment system prior to discharge; and
 - prevent the flow of uncontaminated stormwater into this area.
5. Constituents of the discharge shall meet the standards shown in the following table.

<u>Constituent</u>	<u>Standard</u>
suspended solids	Concentration not greater than 200 gm ⁻³
oil and grease	Concentration not greater than 15 gm ⁻³

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

Consent 5002-2

6. After allowing for reasonable mixing, within a mixing zone extending 75 metres downstream of the confluence with the unnamed tributary with the Patea River, the discharge shall not give rise to any or all of the following effects in the receiving water of the Patea River:
 - a) an increase of pH by more than 0.5 pH units;
 - b) a decrease in river clarity of more than 50%;
 - c) the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials;
 - d) any conspicuous change in colour or visual clarity;
 - e) any emission of objectionable odour;
 - f) the rendering of fresh water unsuitable for consumption by farm animals;
 - g) 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. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2016 and/or June 2022 for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 25 August 2010

For and on behalf of
Taranaki Regional Council

Director-Resource Management

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

Name of
Consent Holder: Vickers Quarries Limited
683 York Road
RD 24
STRATFORD 4394

Decision Date
(Change): 22 May 2014

Commencement Date
(Change): 22 May 2014 (Granted Date: 12 September 2012)

Conditions of Consent

Consent Granted: To discharge treated stormwater, groundwater and washwater from a quarry site onto and into land and into an unnamed tributary of the Waipuku Stream

Expiry Date: 01 June 2027

Review Date(s): June 2016, June 2018, June 2020, June 2022,
June 2024, June 2026

Site Location: York Road, Midhirst

Legal Description: Secs 51 & 52 Blk XVI Egmont SD (Discharge source & site)

Grid Reference (NZTM) 1702842E-5650466N

Catchment: Waitara

Tributary: Manganui
Waipuku

*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. No less than 30 days, prior to beginning excavation in the proposed quarry extension shown in the indicative plan attached to this consent, the consent holder shall provide to the Chief Executive, Taranaki Regional Council a detailed stage plan for the proposed quarry operation.
2. The detailed stage plan required under condition 1 above shall show a minimum buffer of:
 - a) 10 metres between the new quarry area and the unnamed tributary of the Waipuku Stream; and
 - b) 20 metres between the existing quarry area and larger tributary of the Waipuku Stream.

No excavation shall occur within these buffers.

3. At least 30 days prior to commencing quarrying in each stage, the consent holder shall prepare, and subsequently maintain, a detailed stormwater management plan that documents how the site will be managed to ensure that stormwater, washwater and groundwater is adequately managed and treated prior to the discharge into the stream. Details of the management of each site shall include, but not necessarily limited to, the:
 - a) diversion of streams;
 - b) groundwater taken incidental to the quarry operation;
 - c) treatment of stormwater, groundwater, washwater and incidental groundwater, prior to the discharge into the streams; and
 - d) measures and procedures to be undertaken to prevent the spillage of accidental discharge of contaminants in the stormwater catchment, and measures to avoid, remedy or mitigate the environmental effects of such spillage.

The stormwater management plan shall be certified by the Chief Executive, Taranaki Regional Council and shall be followed at all times.

4. The consent holder shall at all times adopt the best practicable option, as defined in the Resource Management Act 1991, to prevent or minimise any adverse effects of the discharge to the environment.
5. The consent holder shall operate and progressively reinstate the quarry site in a manner which ensures that the area of exposed, un-vegetated earth, within the quarry's stormwater catchment is kept to a minimum at all times.
6. The stormwater discharged shall be from a catchment area not exceeding 36 hectares.

Consent 4905-3.1

7. The consent holder shall properly maintain and operate the settling ponds system, including the use of shut off valves, in such a manner that any discharge which may occur does not breach the conditions of this consent. The settling ponds system shall be operated, as far as practicable, so as to minimise the duration and frequency of discharges.
8. There shall be no direct discharge of untreated stormwater or groundwater from the active quarry site into any surface water.
9. 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 ⁻³
total hydrocarbons	Concentration not greater than 15 gm ⁻³

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

10. After allowing for reasonable mixing, within a mixing zone extending 25 metres downstream of any discharge point, the discharge shall not give rise to any of the following effects in the receiving waters:
 - a) the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials;
 - b) any conspicuous change in the colour or visual clarity;
 - c) any emission of objectionable odour;
 - d) the rendering of fresh water unsuitable for consumption by farm animals;
 - e) any significant adverse effects on aquatic life.
11. After allowing for reasonable mixing, within a mixing zone extending 25 metres downstream of any discharge point, the discharge shall not give rise to any of the following effects in the receiving waters:
 - a) an increase in the suspended solids concentration within the unnamed tributary of the Waipuku Stream in excess of 10 grams per cubic metres when the turbidity as measured immediately upstream of the discharge point is equal to or less than 5 NTU (nephelometric turbidity units); or
 - b) an increase in the turbidity within the unnamed tributary of the Waipuku Stream of more than 50%, where the stream turbidity measured upstream if the discharge is greater than 5 NTU, as determined using NTU (nephelometric turbidity units).
12. The washing and washwater treatment system shall be bunded to prevent the inflow of stormwater and/or groundwater from any other areas of the quarry. In addition, the consent holder shall implement appropriate re-circulatory systems to minimise the volume of washwater being discharged off-site.

Consent 4905-3.1

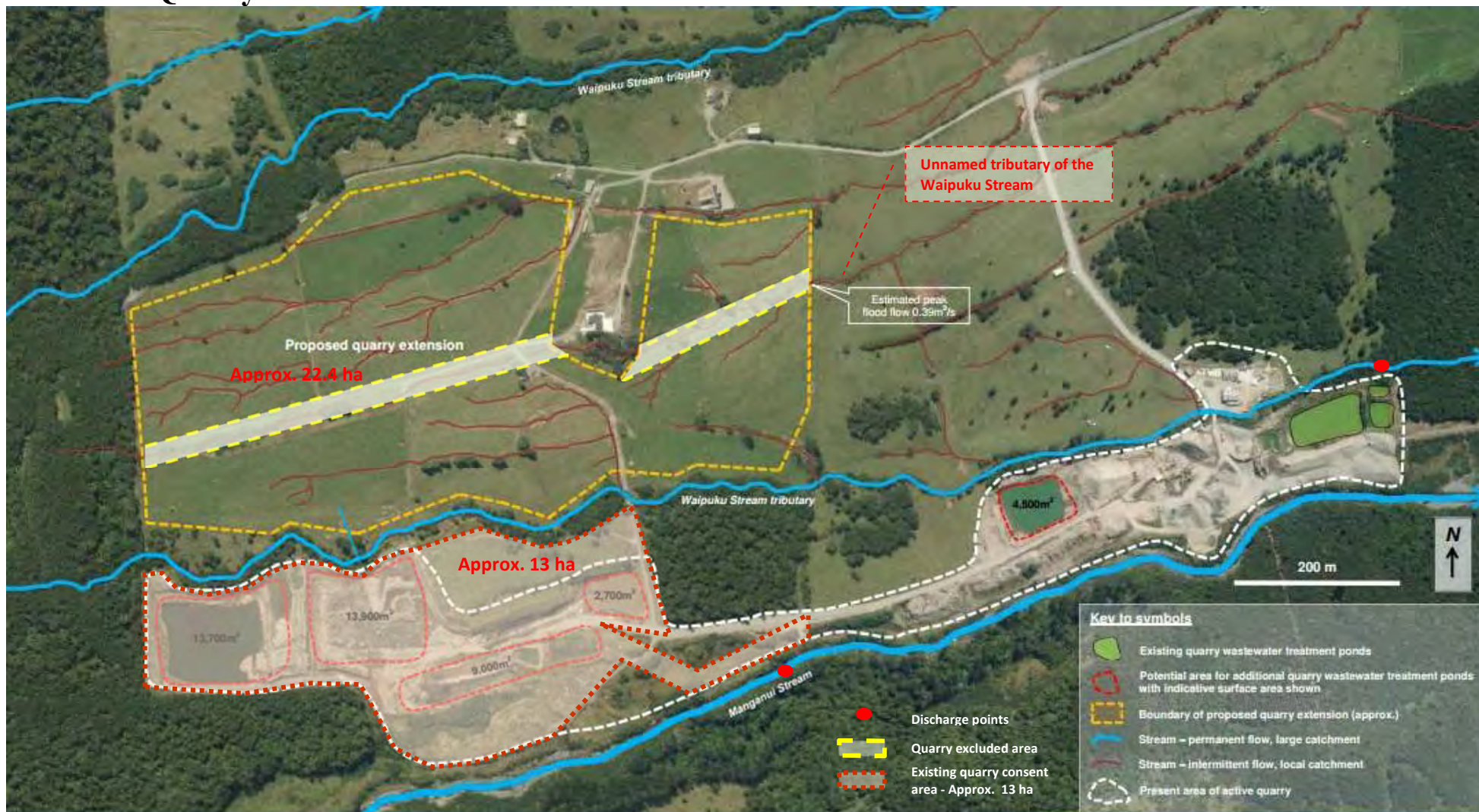
13. The consent holder shall notify the Chief Executive, Taranaki Regional Council, prior to making any changes to the processes or operations undertaken at the site, or the chemicals used or stored on site that could alter the nature of the discharge. Any such change shall then only occur following 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.
14. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2016 and/or June 2018, and/or June 2020, and/or June 2022, and/or June 2024, 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 22 May 2014

For and on behalf of
Taranaki Regional Council

A D McLay
Director - Resource Management

Indicative Quarry Plan – Attachment for Consent 4905



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

Name of
Consent Holder: Vickers Quarries Limited
683 York Road
RD 24
STRATFORD 4394

Decision Date 22 May 2014
(Change):

Commencement Date 22 May 2014 (Granted Date: 12 September 2012)
(Change):

Conditions of Consent

Consent Granted: To discharge treated stormwater and groundwater seepage
from quarry operations into an unnamed tributary of the
Manganui River

Expiry Date: 01 June 2027

Review Date(s): June 2016, June 2018, June 2020, June 2022,
June 2024, June 2026

Site Location: York Road, Midhirst

Legal Description: Pt Clsd Rd SO 10236 Adj Sec 24 Pt Secs 21 & 48
Blk XVI Egmont SD Sec 47 Blk XVI Egmont SD
(Discharge source & site)

Grid Reference (NZTM) 1702094E-5650120N

Catchment: Waitara

Tributary: Manganui

*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. No less than 30 days, prior to beginning excavation in the proposed quarry extension shown in the indicative plan attached to this consent, the consent holder shall provide to the Chief Executive, Taranaki Regional Council a detailed stage plan for the proposed quarry operation.
2. The detailed stage plan required under condition 1 above shall show a minimum buffer of:
 - a) 10 metres between the new quarry area and the unnamed tributary of the Waipuku Stream; and
 - b) 20 metres between the existing quarry area and larger tributary of the Waipuku Stream.

No excavation shall occur within these buffers.

3. At least 30 days prior to commencing quarrying in each stage, the consent holder shall prepare, and subsequently maintain, a detailed stormwater management plan that documents how the site will be managed to ensure that stormwater and groundwater is adequately managed and treated prior to the discharge into the stream. Details of the management of each site shall include, but not necessarily limited to, the:
 - a) diversion of streams;
 - b) groundwater taken incidental to the quarry operation;
 - c) treatment of stormwater, groundwater and incidental groundwater, prior to the discharge into the streams; and
 - d) measures and procedures to be undertaken to prevent the spillage of accidental discharge of contaminants in the stormwater catchment, and measures to avoid, remedy or mitigate the environmental effects of such spillage.

The stormwater management plan shall be certified by the Chief Executive, Taranaki Regional Council and shall be followed at all times.

4. The consent holder shall at all times adopt the best practicable option, as defined in the Resource Management Act 1991, to prevent or minimise any adverse effects of the discharge to the environment.
5. The consent holder shall operate and progressively reinstate the quarry site in a manner which ensures that the area of exposed, un-vegetated earth, within the quarry's stormwater catchment is kept to a minimum at all times.
6. The stormwater discharged shall be from a catchment area not exceeding 36 hectares.

Consent 5218-2.1

7. The consent holder shall properly maintain and operate the settling ponds system, including the use of shut off valves, in such a manner that any discharge which may occur shall not breach the conditions of this consent. The settling ponds system shall be operated, as far as practicable, so as to minimise the duration and frequency of discharges.
8. There shall be no direct discharge of untreated stormwater or groundwater from the active quarry site into any surface water.
9. 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 ⁻³
total hydrocarbons	Concentration not greater than 15 gm ⁻³

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

10. After allowing for reasonable mixing, within a mixing zone extending 25 metres downstream of any discharge point, the discharge shall not give rise to any of the following effects in the receiving waters:
 - a) the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials;
 - b) any conspicuous change in the colour or visual clarity;
 - c) any emission of objectionable odour;
 - d) the rendering of fresh water unsuitable for consumption by farm animals;
 - e) any significant adverse effects on aquatic life
11. After allowing for reasonable mixing, within a mixing zone extending 25 metres downstream of any discharge point, the discharge shall not give rise to any of the following effects in the receiving waters:
 - a) an increase in the suspended solids concentration within the unnamed tributary of the Waipuku Stream in excess of 10 grams per cubic metres when the turbidity as measured immediately upstream of the discharge point is equal to or less than 5 NTU (nephelometric turbidity units); or
 - b) an increase in the turbidity within the unnamed tributary of the Waipuku Stream of more than 50%, where the stream turbidity measured upstream if the discharge is greater than 5 NTU, as determined using NTU (nephelometric turbidity units).
12. 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.

Consent 5218-2.1

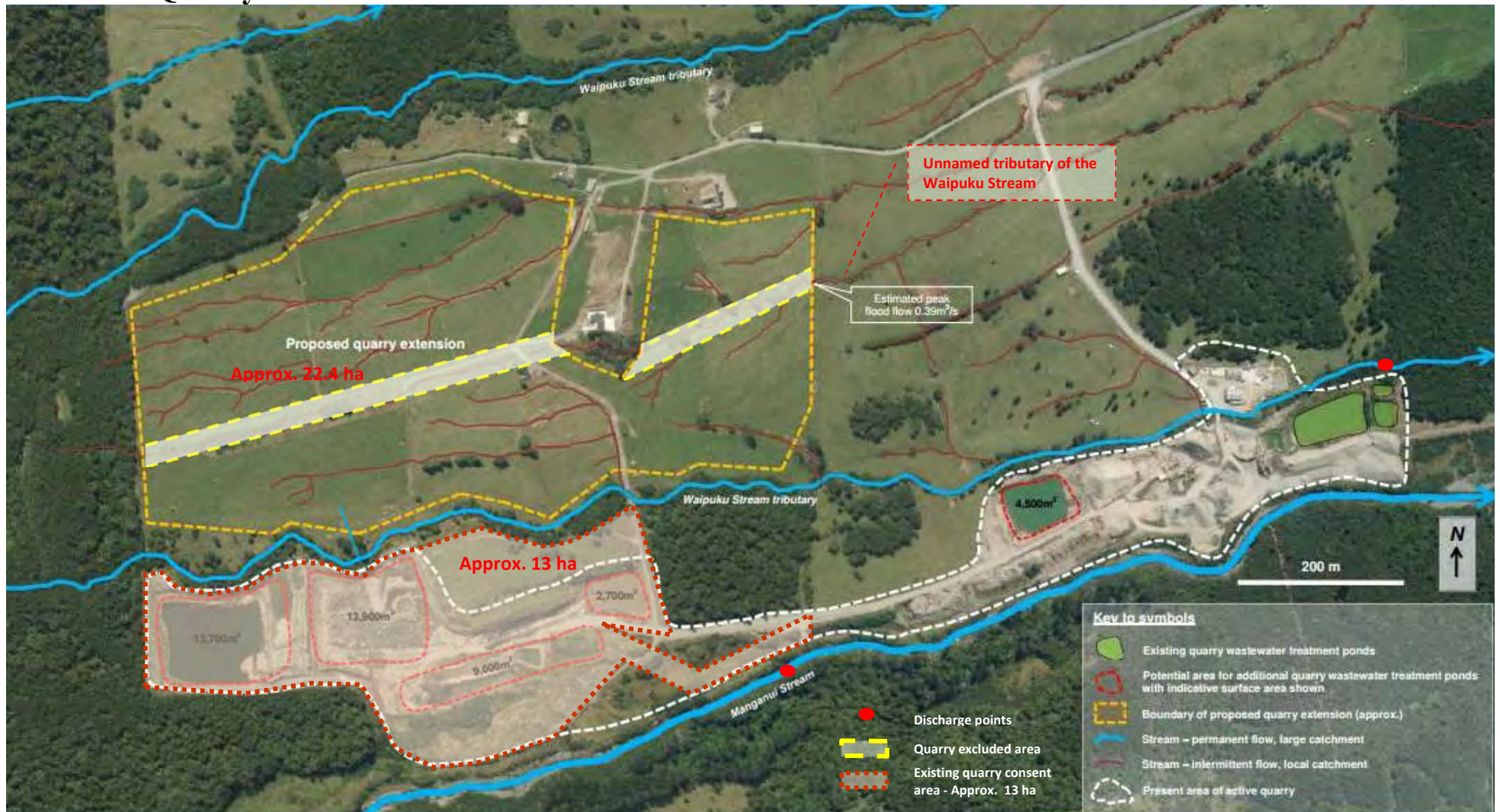
13. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2016 and/or June 2018, and/or June 2020, and/or June 2022, and/or June 2024, 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 22 May 2014

For and on behalf of
Taranaki Regional Council

A D McLay
Director - Resource Management

Indicative Quarry Plan – Attachment for Consent 5218



Land Use Consent
Pursuant to the Resource Management Act 1991
a resource consent is hereby granted by the
Taranaki Regional Council

Name of
Consent Holder: Vickers Quarries Limited
 125 Radnor Road
 R D 24
 STRATFORD

Consent Granted 18 August 2008
Date:

Conditions of Consent

Consent Granted: To erect, place and maintain a rock rip-rap wall to the left
 bank of the Manganui River for erosion control purposes at
 or about (NZTM) 1702246E-5650163 and
 1702541E-5650262N

Expiry Date: 1 June 2027

Review Date(s): June 2015, June 2021

Site Location: York Road, Stratford

Legal Description: Sec 47 Blk XVI Egmont SD

Catchment: Waitara

Tributary: Manganui

General conditions

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

Special conditions

1. The exercise of this consent shall be undertaken in accordance with the documentation submitted in support of application 6061. If there is any conflict between the documentation submitted in support of application 6061 and the conditions of this consent, the conditions of this consent shall prevail.
2. Any disturbance of parts of the riverbed covered by water and/or any works which may result in downstream discolouration of water shall be undertaken only between 1 November and 30 April, except where this requirement is waived in writing by the Chief Executive, Taranaki Regional Council.
3. The consent holder shall notify the Chief Executive, Taranaki Regional Council, in writing at least 48 hours prior to the commencement and upon completion of the initial installation and again at least 48 hours prior to and upon completion of any subsequent maintenance works which would involve disturbance of or deposition to the riverbed or discharges to water. Notification shall include the consent number and a brief description of the activity consented and be emailed to worknotification@trc.govt.nz. Notification by fax or post is acceptable only if the consent holder does not have access to email.
4. The consent holder shall ensure that the area and volume of riverbed disturbance shall, so far as is practicable, be minimised and any areas which are disturbed shall, so far as is practicable, be reinstated.
5. The consent holder shall take all reasonable steps to:
 - a. minimise the amount of sediment discharged to the stream;
 - b. minimise the amount of sediment that becomes suspended in the stream; and
 - c. mitigate the effects of any sediment in the stream.

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

Consent 7360-1

6. Except with the written agreement of the Chief Executive, Taranaki Regional Council, the structure[s] authorised by this consent shall be removed and the area reinstated, if and when the structure is no longer required. A further resource consent may be required to authorise the removal of the structure, and the consent holder is advised to seek advice from the Council on this matter.
7. The exercise of this consent shall not alter the natural flow of the river or restrict the passage of fish.
8. This consent shall lapse five years after the date of issue of this consent, unless the consent is given effect to before the end of that period or the Taranaki Regional Council fixes a longer period pursuant to section 125(1)(b) of the Resource Management Act 1991.
9. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2015 and/or June 2021, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Signed at Stratford on 18 August 2008

For and on behalf of
Taranaki Regional Council

Director-Resource Management

Land Use Consent
Pursuant to the Resource Management Act 1991
a resource consent is hereby granted by the
Taranaki Regional Council

Name of
Consent Holder: Vickers Quarries Limited
683 York Road
RD 24
STRATFORD 4394

Decision Date: 22 May 2014

Commencement Date: 22 May 2014

Conditions of Consent

Consent Granted: To disturb and reclaim the streambed sections of unnamed tributaries of Waipuku Stream, in association with quarry operations

Expiry Date: 01 June 2027

Review Date(s): June 2016, June 2018, June 2020, June 2022,
June 2024, June 2026

Site Location: York Road, Midhirst

Legal Description: Lot 2 DP 366171 (Site of reclamation)

Grid Reference (NZTM) 1701748E-5650551N

Catchment: Waitara

Tributary Manganui
Waipuku

*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. No less than 30 days, prior to beginning excavation in the proposed quarry extension shown in the indicative plan attached to this consent, the consent holder shall provide to the Chief Executive a detailed stage plan for the proposed quarry operation.
2. The detailed stage plan required under condition 1 above shall show a minimum buffer of:
 - a) 10 metres between the new quarry area and the unnamed tributary of the Waipuku Stream; and
 - b) 20 metres between the existing quarry area and larger tributary of the Waipuku Stream.

No excavation shall occur within these buffers.

3. At least 30 days prior to commencing quarrying in each stage, the consent holder shall prepare, and subsequently maintain, a detailed stormwater management plan that documents how the site will be managed to ensure that stormwater, washwater and groundwater is adequately managed and treated prior to the discharge into the stream. Details of the management of each site shall include, but not necessarily limited to, the:
 - a) diversion of streams;
 - b) groundwater taken incidental to the quarry operation;
 - c) treatment of stormwater, groundwater, washwater and incidental groundwater, prior to the discharge into the streams; and
 - d) measures and procedures to be undertaken to prevent the spillage of accidental discharge of contaminants in the stormwater catchment, and measures to avoid, remedy or mitigate the environmental effects of such spillage.

The stormwater management plan shall be certified by the Chief Executive, Taranaki Regional Council and shall be followed at all times.

4. The disturbance and reclamation of the streambed sections shall be as per the stormwater management plan submitted under condition 2 of this consent.
5. The consent holder shall at all times adopt the best practicable option, as defined in the Resource Management Act 1991, to prevent or minimise any adverse effects of the discharge to the environment.
6. The consent holder shall notify the Chief Executive, Taranaki Regional Council, in writing of the date that the activity is expected to commence. Notification shall occur by email to worknotification@trc.govt.nz and be provided at least 2 working days before.

Consent 9812-1.1

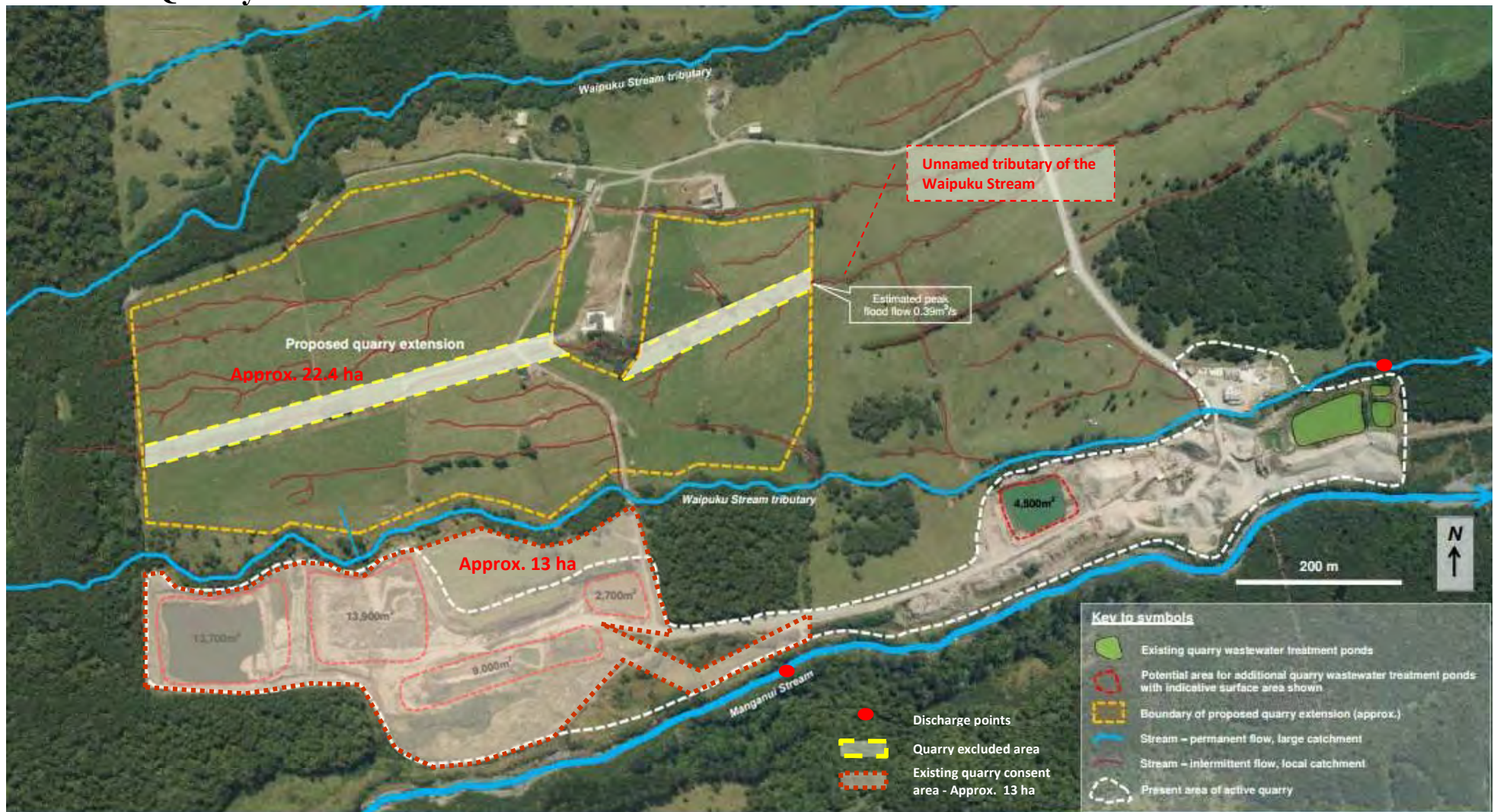
7. This consent will lapse on 1 June 2027.
8. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2016 and/or June 2018, and/or June 2020, and/or June 2022, and/or June 2024, 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 22 May 2014

For and on behalf of
Taranaki Regional Council

A D McLay
Director - Resource Management

Indicative Quarry Plan – Attachment for Consent 9812



Land Use Consent
Pursuant to the Resource Management Act 1991
a resource consent is hereby granted by the
Taranaki Regional Council

Name of
Consent Holder: Vickers Quarries Limited
683 York Road
RD 24
STRATFORD 4394

Decision Date: 22 May 2014

Commencement Date: 22 May 2014

Conditions of Consent

Consent Granted: To take groundwater incidental to quarry operations

Expiry Date: 01 June 2027

Review Date(s): June 2016, June 2018, June 2020, June 2022,
June 2024, June 2026

Site Location: York Road, Midhirst

Legal Description: Lot 2 DP 366171 (Site of take)

Grid Reference (NZTM) 1701748E-5650551N

Catchment: Waitara

Tributary: Manganui
Waipuku

*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. No less than 30 days, prior to beginning excavation in the proposed quarry extension shown in the indicative plan attached to this consent, the consent holder shall provide to the Chief Executive a detailed stage plan for the proposed quarry operation.
2. The detailed stage plan required under condition 1 above shall show a minimum buffer of:
 - a) 10 metres between the new quarry area and the unnamed tributary of the Waipuku Stream; and
 - b) 20 metres between the existing quarry area and larger tributary of the Waipuku Stream.

No excavation shall occur within these buffers.

3. At least 30 days prior to commencing quarrying in each stage, the consent holder shall prepare, and subsequently maintain, a detailed stormwater management plan that documents how the site will be managed to ensure that stormwater, washwater and groundwater is adequately managed and treated prior to the discharge into the stream. Details of the management of each site shall include, but not necessarily limited to, the:
 - a) diversion of streams;
 - b) groundwater taken incidental to the quarry operation;
 - c) treatment of stormwater, groundwater, washwater and incidental groundwater, prior to the discharge into the streams; and
 - d) measures and procedures to be undertaken to prevent the spillage of accidental discharge of contaminants in the stormwater catchment, and measures to avoid, remedy or mitigate the environmental effects of such spillage.

The stormwater management plan shall be certified by the Chief Executive, Taranaki Regional Council and shall be followed at all times.

4. The taking of groundwater shall be incidental to the quarrying activities at the site.
5. The consent holder shall notify the Chief Executive, Taranaki Regional Council, in writing of the date that the activity is expected to commence. Notification shall occur by email to worknotification@trc.govt.nz and be provided at least 2 working days before.
6. At all times the consent holder shall adopt the best practicable option to prevent or minimise any actual or likely adverse effect on the environment associated with the abstraction of groundwater.

Consent 9850-1.0

7. This consent will lapse on 1 June 2027.
8. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2016 and/or June 2018, and/or June 2020, and/or June 2022, and/or June 2024, 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 22 May 2014

For and on behalf of
Taranaki Regional Council

A D McLay
Director - Resource Management

Indicative Quarry Plan – Attachment for Consent 9850

