## **RKM Farms Ltd (Piggery)**

Monitoring Programme
Annual Report
2021-2022

Technical Report 2022-53





Taranaki Regional Council Private Bag 713 Stratford

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#### **Executive summary**

RKM Farms Ltd (the Company) operates a piggery located on 599A South Road at Hawera, in the Tangahoe catchment. The piggery is a breeder grower and finishing operation with up to 5,000 pigs and piglets at any one time, employing between four and five full time staff.

During the monitoring period, RKM Farms Ltd demonstrated a high level of environmental performance and high level of administrative performance.

This report for the period July 2021 to June 2022 describes the monitoring programme implemented by the Taranaki Regional Council (the Council) to assess the Company's environmental and consent compliance performance during the period under review. The report also details the results of the monitoring undertaken and assesses the environmental effects of the Company's activities.

The Company holds two resource consents, which include a total of 13 conditions setting out the requirements that the Company must satisfy. Resource consent 5108-2 allows the discharge of treated effluent into the Tawhiti Stream, and consent 5266-2 relates to the discharge of emissions into the air at this site.

An associated consent held by Lloyd Gernhoefer Contractor Ltd (consent 5352-3) permits the discharge of the contents of effluent treatment ponds, dairy effluent storage ponds, and solids from herd homes to land throughout the Taranaki region.

The Council's monitoring programme for the year under review included four inspections and the collection of two wastewater and receiving water samples collected for physicochemical analysis

The monitoring showed that the wastewater and receiving water samples were well within the consented limits as shown in previous years, the monitoring indicated there was no unauthorised incidents during the period under review.

No non-compliant odour incidents were recorded during the period under review.

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

This report includes recommendations for the 2022-2023 year, including recommendations relating to an optional review of consents 5108-2 and 5266-2.

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#### 1 Introduction

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

#### 1.1.1 Introduction

This report is for the period July 2021 to June 2022 by the Taranaki Regional Council (the Council) on the monitoring programme associated with resource consents held by RKM Farms Ltd (the Company) and Lloyd Gernhoefer Contractor Ltd. The Company operates a piggery situated on 599A South Road, Hawera, in the Tangahoe catchment (Figure 1).



Figure 1 Location of RKM Ltd Piggery

The report includes the results and findings of the monitoring programme implemented by the Council in respect to the consents held by the Company that relate to discharges of water within the Tangahoe catchment, and cover emissions to air from the site.

One of the intents of the *Resource Management Act 1991* (RMA) is that environmental management should be integrated across all media, so that a consent holder's use of water, air, and land should be considered from a single comprehensive environmental perspective. Accordingly, the Council generally implements integrated environmental monitoring programmes and reports the results of the programmes jointly. This report discusses the environmental effects of the Company's use of water, land and air, and is the 12<sup>th</sup> combined annual report by the Council for the Company.

#### 1.1.2 Structure of this report

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

- consent compliance monitoring under the RMA and the Council's obligations;
- the Council's approach to monitoring sites though annual programmes;
- the resource consents held by the Company in the Tangahoe catchment;
- the nature of the monitoring programme in place for the period under review; and

• a description of the activities and operations conducted in the Company's site/catchment.

**Section 2** presents the results of monitoring during the period under review, including scientific and technical data.

Section 3 discusses the results, their interpretations, and their significance for the environment.

Section 4 presents recommendations to be implemented in the 2022-2023 monitoring year.

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

#### 1.1.3 The Resource Management Act 1991 and monitoring

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

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

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

#### 1.1.4 Evaluation of environmental and administrative performance

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

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

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

#### 1.2 Process description

The piggery is a breeder, grower and finishing operation holding up to a maximum of 5,000 pigs and piglets (3,636 pig equivalents) onsite at any one time (Table 1). The discharge is made up of effluent and wash water from the piggery operation.

The piggery stock inventory figures supplied by the consent holder have dropped compared to that of the 2020-2021 monitoring period. The 50 kg pig equivalents (SPU) value has decreased by 688 from 2020-2021 to 2021-2022 monitoring period. Pig numbers are also well below the consented limit of 3,636 SPU, by a total of 1,809 SPU.

Table 1 Piggery inventory as at 30 June 2022

Type of pigs	No of pigs	Average weight kg	Total weight kg	50 kg Equivalent pigs (SPU)
Breeding sows (older than 12 months)	205	162	33,210	664
Breeding sows (less than 12 months)	0	75	0	0
Boars	8	160	1,280	26
Weaners (less than 10 weeks)	520	18	9,360	187
Growers (10-17 weeks)	725	44	31,900	638
Growers (older than 17 weeks)	240	65	15,600	312
Total	1,698			1,827

Approximately 70 m<sup>3</sup> of wastewater is discharged on a daily basis. The wastewater from around the piggery is gravity fed to a series of sumps and is then mixed and pumped from the sumps to the oxidation pond treatment system.

The treatment system comprises three ponds. The first pond, which is anaerobic in nature, is designed to capture the solid component of the discharge, and has an approximate holding capacity of 34,587 m<sup>3</sup>. The second and third ponds are aerobic and have capacity for 10,350 m<sup>3</sup> and 10,800 m<sup>3</sup>, respectively. The pond treatment system has a combined capacity of approximately 55,737 m<sup>3</sup>.

The discharge from the pond treatment system flows through a tertiary treatment system in the form of a wetland which is approximately 1,600 m<sup>3</sup> in area. Raupō is planted within the wetland to further treat the discharge.

From the wetland the treated discharge flows through an open drain and directly into the Tawhiti Stream. The treatment system rarely discharges during the warmer months (January to March) because of evaporation within the two aerobic ponds. In addition to discharging to the Tawhiti Stream, effluent including accumulated solids is pumped out of the anaerobic pond and onto land as required.

#### 1.3 Resource consents

The Company holds two resource consents, the details of which are summarised in the table below. Summaries of the conditions attached to each permit are set out in Section 3 of this report.

An associated consent is held by Lloyd Gernhoefer Contractor Ltd (consent **5352-3)** which permits discharge of the contents of effluent treatment ponds, dairy effluent storage ponds, and solids from herd homes to land throughout the Taranaki region (Table 2). This consent is for the purpose of desludging the oxidation pond system. This consent is currently not monitored as part of the programme.

A summary of the various consent types issued by the Council is included in Appendix I, as are copies of all permits held by the Company during the period under review.

Table 2 Summary of resource consents held by RKM Farms and Lloyd Gernhoefer

Consent holder	Consent number	Purpose	Granted	Review	Expires		
	Water discharge permits						
RKM Farms Ltd	To discharge treated piggery effluent into Tawhiti Stream	August 2010	NA	June 1 2028			
	Air discharge permit						
RKM Farms Ltd	RKM Farms Ltd  5266- 2.0  To discharge piggery operation and associated emissions to air		May 2017	NA	June 1 2028		
	Discharges of waste to land						
Lloyd Gernhoefer Contractor Ltd	5352-3	To irrigate effluent to land	March 2021	June 2025	December 1 2029		

#### 1.4 Monitoring programme

#### 1.4.1 Introduction

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

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

The monitoring programme for the RKM Farms Ltd (Piggery) site consisted of three primary components.

#### 1.4.2 Programme liaison and management

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

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

#### 1.4.3 Site inspections

The Company's site was visited four times during the monitoring period. With regard to consents for the abstraction of or discharge to water, the main points of interest were plant processes with potential or actual discharges to receiving watercourses, including contaminated stormwater and process wastewaters. Generally three inspections are conducted annually, but during the previous monitoring period a non-compliance was noted therefore an extra follow-up inspection was undertaken.

The piggery was also visited on two separate occasions, to monitor and collect wastewater discharge samples from the site and water quality samples upstream and downstream of the discharge point and mixing zone. Sources of data being collected by the Company were identified and accessed, so that performance in respect of operation, internal monitoring, and supervision could be reviewed by the Council. The neighbourhood was surveyed for environmental effects.

As far as practical, inspections related to air emissions were integrated with inspections undertaken for other purposes for example inspection of the oxidation ponds. The air monitoring component focuses on processes with associated actual and potential emission sources and characteristics, including potential odour.

#### 1.4.4 Chemical sampling

The Council undertook sampling of both the discharges from the site and the water quality upstream and downstream of the discharge point and mixing zone. The monitoring programme allows for the discharge and receiving water to be sampled on two occasions.

The treated effluent discharge was sampled on two occasions, and the sample analysed for biochemical oxygen demand (BOD), chloride, conductivity, dissolved reactive phosphate (DRP), unionised ammonia, pH, suspended solids, turbidity and temperature.

The Tawhiti Stream, upstream and downstream of the discharge was sampled on two occasions, and the sample analysed for carbonaceous biochemical oxygen demand (CBOD), chloride, conductivity, dissolved reactive phosphate (DRP), unionised ammonia, pH, suspended solids, turbidity and temperature.

#### 2 Results

#### 2.1 Water

#### 2.1.1 Inspections

The piggery site was inspected on four separate occasions during the 2021-2022 monitoring period. These inspections were carried out on 18 October 2021, 29 October 2021, 1 March 2022 and 27 June 2022.

Consent 5108-2 Special Condition 3 requires that the number of pigs (equivalent to 50 kg per pig/ SPU) on the property at any one time shall not exceed 3,636 pig equivalents. Inventory figures supplied by the consent holder for the 2021-2022 monitoring year shows the piggery is operating well below the consented limit. Inventory for the 2020-2021 monitoring year was approximately 2,515 pig equivalents. The inventory for the 2021-2022 monitoring period is slightly down on the previous year numbers at 1,827 pig equivalents.

Discussion over the monitoring period included the general production inventory, piggery buildings, feed regime in relation to source and odour, and laboratory results in relation to consent conditions and biosecurity requirements.

During the four inspections the effluent pond system and the discharge to receiving waters in the Tawhiti stream were a main focus. The ponds looked to be functioning well with good microbial activity in the anaerobic pond. Bunding has been improved in the area where effluent is directed to the sump. Discharge from the pond system to the Tawhiti Stream was observed on multiple inspections to have no visual effects on the receiving environment. The discharge itself was noted to be ranging from a light tea colour to turbid brown. No overflows were noted from the bunding and sumps throughout the monitoring period.

The spring flowing down the bank below the piggery was observed on each inspection to be running clear with no obvious environmental effects.

Water quality samples were collected on two occasions, 18 October 2021 and 19 May 2022. No visual environmental impacts were observed downstream of the treated piggery discharge while collecting these samples.

During this monitoring period no effluent/solids were applied to land. The ponds are well sized for maximum production of 3,636 pig equivalents. Desludging the ponds may be required if production is increased significantly.

Overall the piggery appeared to be well maintained and well managed.

#### 2.1.2 Results of abstraction and discharge monitoring

#### Receiving waters physicochemical monitoring

The consent holders' farm boundary borders along the true right bank of Tawhiti Stream to where it meets the Tangahoe River, and along the river to South Road Bridge. Environmental monitoring sites are provided in relation to the piggery operation's discharge point (Table 3).

Table 3 Location of sampling sites in Tawhiti Stream including the piggery discharge

Site	Site Code	GPS reference	Location
Tawhiti Stream	TWH000495	E1715350 N5614243	20 m upstream of piggery discharge
Piggery effluent	PGP003001	E1715305 N5614206	Discharge outlet from aerobic pond
Tawhiti Stream	TWH000496	E1715356 N5614111	30 m downstream of piggery discharge

Samples were collected from the discharge point as well as upstream and downstream of the discharge on two occasions during the monitoring year under review.

Results of the survey performed on 3 November 2021 are presented in Table 4. On this occasion the stream was running at a moderate steady flow, turbid and green brown in colour. The ponds' treated wastewater discharge was estimated at about 1.5 L/s and light tannin brown in colour with no noticeable odour. The weather was dry with scattered cloud at the time of sampling. The wastewater discharge from the wetland showed no significant downstream environmental impact on the Tawhiti Stream. The results below show the parameters tested were well within consented limits.

Table 4 Receiving water and discharge samples 18 October 2021

Parameter	Units	PGP003001 Discharge	TWH000495 Upstream	TWH000496 Downstream
Time of sample collection	hrs/NZST	1030	1040	1055
Temperature	°C	15.5	14.7	14.7
рН	pH units	7.8	7.7	7.6
Un-ionised ammonia	g/m³N	0.40	0.00029	0.00024
Ammoniacal nitrogen	g/m³N	21	0.021	0.030
BOD <sub>5</sub>	g/m³	57	-	-
BOD <sub>5</sub> (filtered, carbonaceous)	g/m³	-	1.4	<1.0
Chloride	g/m³	198	32	31
Conductivity @ 25°C	mS/m	133.7	28	28
DRP	g/m³P	12.1	0.024	0.030
Suspended solids	g/m³	18	35	39
Turbidity	FNU/NTU	14.7 NTU	22 FNU	20 FNU

Results of the survey performed on 19 May 2022 are presented in Table 5. The Tawhiti Stream was running at a moderate and steady flow and turbid brown in colour. No visual environmental effects were observed in the Tawhiti Stream from the piggery discharge near the downstream monitoring site. There was also minimal odour emitting from the ponds. These samples were collected during dry overcast weather conditions.

Table 5 Receiving water and discharge samples 19 May 2022

Parameter	Units	PGP003001 Discharge	TWH000495 Upstream	TWH000496 Downstream
Time of sample collection	hrs/NZST	1020	1035	1045
Temperature	°C	14.9	14.5	14.5
рН	pH units	7.8	7.7	7.6
Un-ionised ammonia	g/m³N	0.131	0.00044	0.00039
Ammoniacal nitrogen	g/m³N	7.2	0.033	0.037
BOD <sub>5</sub>	g/m³	10	-	-
BOD <sub>5</sub> (filtered, carbonaceous)	g/m³	-	<1.0	<1.0
Chloride	g/m³	260	32	32
Conductivity @ 25°C	mS/m	147.5	27.7	27.3

Parameter	Units	PGP003001 Discharge	TWH000495 Upstream	TWH000496 Downstream
DRP	g/m³P	14.3	0.033	0.041
Suspended solids	g/m³	42	28	21
Turbidity	FNU/NTU	34 NTU	13.8 FNU	13.6 FNU

Special consent condition 4b specifies that after a mixing zone of 30 m downstream of where the discharge enters the Tawhiti Stream, the un-ionised ammonia level shall not exceed 0.025 g/m<sup>3</sup>. The above results showed minimal change in un-ionised ammonia at the upstream and downstream sites, well below the consented limit.

Special consent condition 4a specifies that after a mixing zone of 30 m downstream of where the discharge enters the Tawhiti Stream, filtered carbonaceous biochemical oxygen demand must not exceed 2.00 g/m<sup>3</sup>. The above results show no measureable increase of BOD, well within consenting limits.

Although not a consent requirement the above results indicate that good dilution in the Tawhiti Stream has been maintained.

Monitoring of wastewater on the two occasions during the 2021-2022 year indicated that the wastewater was well treated in terms of BOD, turbidity, suspended solids and pH, with nutrient levels within an acceptable range (Table 6).

Table 6 Summary of treated wastewater analyses from RKM Farms Ltd piggery for the period July 2021 to June 2022

Parameter	Units	18 October 2021	19 May 2022	Mean
Conductivity @ 25°C	mS/m	133.7	147.5	140.6
Chloride	g/m³	198	260	229
рН	pH Units	7.8	7.8	7.8
Total carbonaceous BOD <sub>5</sub>	g/m³	57	10	33.5
Ammoniacal nitrogen	g/m³N	21	7.2	14.1
DRP	g/ g/m³P	12.1	14.3	13,2
Suspended solids	g/m³	18	42	30

#### 2.2 Air

#### 2.2.1 Inspections

As far as practicable, inspections relating to air emissions were integrated with inspections undertaken for other purposes.

#### 2.2.2 Results of abstraction and discharge monitoring

The RMA effectively requires that there should be no offensive or objectionable odour beyond the boundary of the farm.

Odours emitted from normal piggery operations are generally influenced by weather conditions (i.e. wind direction), effluent treatment, pond management, irrigating sludge to land and general piggery hygiene practices.

The offensiveness of odour at any time is reliant on individual perception, Council methods of measurement, and practices of the pork producer. The Environmental Management System (EMS) deals with piggery operational practices ensuring the effect of odour is taken into account when the pork producer is undertaking activities relating to different areas of the piggery.

All inspections that were carried out during the monitoring period found 'normal to slightly noticeable' piggery type odour emanating downwind of the piggery and near the offal pit. In general, wind conditions were from the western quarter and were only slight. No odour emissions were 'noted' beyond the perimeter of the property boundary. Therefore, odours were restricted to the property and not considered likely to impact neighbouring properties.

#### 2.3 Incidents, investigations, and interventions

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

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).

During the 2021-2022 monitoring period there was no recorded incidents, additional investigations or interventions required by the Council in relation to the Company's activities.

#### 3 Discussion

#### 3.1 Discussion of site performance

Compliance inspections carried out by Council officers during the 2021-2022 monitoring year found the piggery to be a well-managed operation. All wastewater treatment facilities and disposal processes were adequately maintained. No complaints were received by the council during the 2021-2022 monitoring period. The piggery has now been operating for nearly a century and has indicated good compliance during previous monitoring periods.

In terms of consents held:

To discharge treated piggery effluent into Tawhiti Stream, consent 5108-2.

Results from upstream and downstream of the discharge outlet indicated minimal increases in chemical analyses, showing that the discharge is having little to no measurable effect on the receiving waters, and there is good dilution in the stream with minimal environmental impacts arising directly as a result of this consented activity.

To discharge piggery operation and associated emissions to air, consent **5266-2.0**.

There were no process changes undertaken by the Company during the monitoring period. All 'normal to slightly noticeable' piggery type odours were only observed downwind of the offal pit. No other odour emissions were noted beyond the perimeter of the property, and were not considered to impact neighbouring properties.

Overall, the Company was found to have performed well in the period under review with regards to their consents and performance.

#### 3.2 Environmental effects of exercise of consents

The discharge of wastewater to Tawhiti Stream was recorded to have little to no environmental impacts outside or inside the mixing zone. There was a relatively small increase in nutrients observed downstream of the discharge during moderate flow conditions. In isolation, this is unlikely to have a significant effect on the Tawhiti Stream however, it is important to keep in mind that any increase in nutrient concentration will contribute to the overall accumulation of nutrient load within the stream and any receiving environment.

In regard to air emissions from the piggery and effluent treatment system, there were no incidents related to odours beyond the site boundary. Inspections by Council found local odour around the effluent drains and collection area.

#### 3.3 Evaluation of performance

A tabular summary of the consent holder's compliance record for the year under review is set out in Tables 7 and 8.

Table 7 Evaluation of performance for consent 5108-2

Purpose: To discharge treated piggery effluent from an oxidation ponds system followed by tertiary treatment into water			
( andition requirement		Compliance achieved?	
Provision of wastewater plan	Plan received by Council Nov 2010	Yes	

#### Purpose: To discharge treated piggery effluent from an oxidation ponds system followed by tertiary treatment into water Means of monitoring during period under Compliance **Condition requirement** review achieved? 2. Adoption of best practical option to avoid or minimise Liaison with Company and inspection Yes adverse effects 3. Maximum allowable number of Liaison with Company Yes pig equivalents 4. Specified limits in receiving Inspection and physicochemical sampling Yes water after mixing 5. Optional review provision Consent expires June 2028 N/A High Overall assessment of consent compliance and environmental performance in respect

High

#### N/A = not applicable

of this consent

Table 8 Evaluation of performance for consent 5266-2

Overall assessment of administrative performance in respect of this consent

Purpose: To discharge emissions to air from a pig farming operation and associated practices including effluent treatment and other waste management activities			
	Condition requirement	Means of monitoring during period under review	Compliance achieved?
1.	Maximum allowable number of pig equivalents	Liaison with Company	Yes
2.	Adoption of best practical option	Liaison with Company and inspection	Yes
3.	Consultation and approval prior to alterations to plant and process	Liaison with Company	N/A
4.	Minimisation of impact and emissions through use of equipment and suitable methods	Monitoring inspections	Yes
5.	Objectionable odour at site boundary not permitted	Monitoring inspections	Yes
6.	Optional review provision	Consent expires June 2028	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  Hig			High

N/A = not applicable

Table 9 Summary of performance over the years

Year	Consent no	High	Good	Improvement req	Poor
2012 2014	5108	1	-	-	-
2013-2014	5266	1	-	-	-
2014-2015	5108	1	-	-	-
2014-2015	5266	1	-	-	-
2015 2016	5108	1	-	-	-
2015-2016	5266	1	-	-	-
2016 2017	5108	1	-	-	-
2016-2017	5266	1	-	-	-
2017 2010	5108	1	-	-	-
2017-2018	5266	1	-	-	-
2010 2010	5108	1	-	-	-
2018-2019	5266	1	-	-	-
2010 2020	5108	1	-	-	-
2019-2020	5266	1	-	-	-
2020 2021	5108	-	1	-	-
2020-2021	5266	1	-	-	-
2021 2022	5108	1	-	-	-
2021-2022	5266	1	-	-	-
Tota	als	17	1	-	-

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

#### 3.4 Recommendations from the 2020-2021 Annual Report

- 1. THAT in the first instance, monitoring of consented activities at Company's piggery in the 2020-2021 year continue at the same level as in 2019-2020.
- 2. THAT the provisions in the monitoring programme to sample the discharge and receiving waters on two separate occasions remain unchanged.
- 3. THAT the consent holder continues to notify Council with information when solids are extracted from the main pond for disposal, including details of where the solids are spread over land.
- 4. THAT the inspections for the 2020-2021 period continue at three inspections and these inspections are to be carried out on a four-monthly basis.
- 5. THAT should there be issues with environmental or administrative performance in 2020-2021, monitoring may be adjusted to reflect any additional investigative or intervention as found necessary.
- 6. THAT the option for a review of resource consents 0068-4, 0195-3, 5353-2, and 2452-2 in June 2022, as set out in conditions of the consents, not be exercised, on the grounds that the current conditions are adequate.

#### 3.5 Alterations to monitoring programmes for 2022-2023

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

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

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

It is proposed that for 2022-2023 there will not be any significant alteration to the monitoring programme.

It should be noted that the proposed programme represents a reasonable and risk-based level of monitoring for the site(s) in question. The Council reserves the right to subsequently adjust the programme from that initially prepared, should the need arise if potential or actual non-compliance is determined at any time during 2022-2023.

#### 3.6 Exercise of optional review of consent

Resource consents 5108-2 and 5266-2 provides for an optional review of the consents in June 2022. Condition five of consent 5108-2 allows the Council to review the consent, if there are grounds that conditions are adequate to deal with any arising adverse effects on the environment relating to discharge of wastewater and/or measures to comply with condition 2 which are necessary to address any adverse effects of the discharge of wastewater from the site and/or to address any apparent deficiencies in the design of the pond treatment system.

Condition six of consent 5266-2 allows the Council to review the consent, if there are grounds that the conditions set are adequate to deal with any adverse effects on the environment from the activity, which were either not foreseen at the time of application or not appropriate to deal with at the time.

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

#### 4 Recommendations

- 1. THAT in the first instance, monitoring of consented activities at Company's piggery in the 2022-2023 year continue at the same level as in 2021-2022.
- 2. THAT the provisions in the monitoring programme to sample the discharge and receiving waters on two separate occasions remain unchanged.
- 3. THAT the consent holder continues to notify Council with information when solids are extracted from the main pond for disposal, including details of where the solids are spread over land. This relates to Lloyd Gernhoefer Contractor Ltd (consent **5352-3).**
- 4. THAT the inspections for the 2022-2023 period continue at three inspections and these inspections are to be carried out on a four-monthly basis.
- 5. THAT should there be issues with environmental or administrative performance in 2022-2023, monitoring may be adjusted to reflect any additional investigative or intervention as found necessary.

#### Glossary of common terms and abbreviations

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

Al\* Aluminium.
As\* Arsenic.

Biomonitoring Assessing the health of the environment using aguatic organisms.

BOD Biochemical oxygen demand. A measure of the presence of degradable organic

matter, taking into account the biological conversion of ammonia to nitrate.

BODF Biochemical oxygen demand of a filtered sample.

Bund A wall around a tank to contain its contents in the case of a leak.

CBOD Carbonaceous biochemical oxygen demand. A measure of the presence of

degradable organic matter, excluding the biological conversion of ammonia to

nitrate.

cfu Colony forming units. A measure of the concentration of bacteria usually expressed

as per 100 millilitre sample.

COD Chemical oxygen demand. A measure of the oxygen required to oxidise all matter in

a sample by chemical reaction.

Conductivity Conductivity, an indication of the level of dissolved salts in a sample, usually

measured at 25°C and expressed in µS/cm.

Cu\* Copper.

Cumec A volumetric measure of flow- 1 cubic metre per second (1 m³s-¹).

DO Dissolved oxygen.

DRP Dissolved reactive phosphorus.

E.coli Escherichia coli, an indicator of the possible presence of faecal material and

pathological micro-organisms. Usually expressed as colony forming units per 100

millilitre sample.

Ent Enterococci, an indicator of the possible presence of faecal material and

pathological micro-organisms. Usually expressed as colony forming units per 100

millilitre of sample.

F Fluoride.

FC Faecal coliforms, an indicator of the possible presence of faecal material and

pathological micro-organisms. Usually expressed as colony forming units per 100

millilitre sample.

FNU Formazin nephelometric units, a measure of the turbidity of water.

Fresh Elevated flow in a stream, such as after heavy rainfall.

g/m²/day grams/metre²/day.

q/m<sup>3</sup> Grams per cubic metre, and equivalent to milligrams per litre (mg/L). In water, this is

also equivalent to parts per million (ppm), but the same does not apply to gaseous

mixtures.

Incident An event that is alleged or is found to have occurred that may have actual or

potential environmental consequences or may involve non-compliance with a consent or rule in a regional plan. Registration of an incident by the Council does

not automatically mean such an outcome had actually occurred.

Intervention Action/s taken by Council to instruct or direct actions be taken to avoid or reduce

the likelihood of an incident occurring.

Investigation Action taken by Council to establish what were the circumstances/events

surrounding an incident including any allegations of an incident.

Incident register The incident register contains a list of events recorded by the Council on the basis

that they may have the potential or actual environmental consequences that may

represent a breach of a consent or provision in a Regional Plan.

L/s Litres per second.

m<sup>2</sup> Square Metres:

MCI Macroinvertebrate community index; a numerical indication of the state of biological

life in a stream that takes into account the sensitivity of the taxa present to organic

pollution in stony habitats.

Mixing zone The zone below a discharge point where the discharge is not fully mixed with the

receiving environment. For a stream, conventionally taken as a length equivalent to

7 times the width of the stream at the discharge point.

MPN Most Probable Number. A method used to estimate the concentration of viable

microorganisms in a sample.

μS/cm Microsiemens per centimetre.

NH<sub>4</sub> Ammonium, normally expressed in terms of the mass of nitrogen (N).

NH<sub>3</sub> Unionised ammonia, normally expressed in terms of the mass of nitrogen (N).

NO<sub>3</sub> Nitrate, normally expressed in terms of the mass of nitrogen (N).

NTU Nephelometric Turbidity Unit, a measure of the turbidity of water.

O&G Oil and grease, defined as anything that will dissolve into a particular organic

solvent (e.g. hexane). May include both animal material (fats) and mineral matter

(hydrocarbons).

Pb\* Lead.

pH A numerical system for measuring acidity in solutions, with 7 as neutral. Numbers

lower than 7 are increasingly acidic and higher than 7 are increasingly alkaline. The scale is logarithmic i.e. a change of 1 represents a ten-fold change in strength. For

example, a pH of 4 is ten times more acidic than a pH of 5.

Physicochemical Measurement of both physical properties (e.g. temperature, clarity, density) and

chemical determinants (e.g. metals and nutrients) to characterise the state of an

environment.

PM<sub>10</sub>, PM<sub>2.5</sub>, PM<sub>1.0</sub> Relatively fine airborne particles (less than 10 or 2.5 or 1.0 micrometre diameter,

respectively).

Resource consent Refer Section 87 of the RMA. Resource consents include land use consents (refer

Sections 9 and 13 of the RMA), coastal permits (Sections 12, 14 and 15), water

permits (Section 14) and discharge permits (Section 15).

RMA Resource Management Act 1991 and including all subsequent amendments.

SS Suspended solids.

SQMCI Semi quantitative macroinvertebrate community index.

Temp Temperature, measured in °C (degrees Celsius).

Turb Turbidity, expressed in NTU or FNU.

Zn\* Zinc.

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

For further information on analytical methods, contact an Environment Quality Manager.

#### Bibliography and references

- Taranaki Regional Council 2020: RKM Farms Ltd (Piggery) Monitoring Programme Annual Report 2019-2020. Technical Report 2020-48.
- Taranaki Regional Council 2019: RKM Farms Ltd (Piggery) Monitoring Programme Annual Report 2018-2019. Technical Report 2019-28.
- Taranaki Regional Council 2018: RKM Farms Ltd (Piggery) Monitoring Programme Annual Report 2017-2018. Technical Report 2018-19.
- Taranaki Regional Council 2017: RKM Farms Ltd (Piggery) Monitoring Programme Annual Report 2016-2017 Technical Report 2017-62
- Taranaki Regional Council 2016: RKM Farms Ltd (Piggery) Monitoring Programme Annual Report 2015-2016. Technical Report 2016-94.
- Taranaki Regional Council 2015: RKM Farms Ltd (Piggery) Monitoring Programme Annual Report 2014-2015. Technical Report 2015-20.
- Taranaki Regional Council 2014: RKM Farms Ltd (Piggery) Monitoring Programme Annual Report 2013-2014. Technical Report 2014-19.
- Taranaki Regional Council 2013: GD & J Harvie Piggery Monitoring Programme Annual Report 2012-2013. Technical Report 2013-02.
- Taranaki Regional Council 2012: GD & J Harvie Piggery Monitoring Programme Annual Report 2011-2012. Technical Report 2012-25.
- Taranaki Regional Council 2011: GD & J Harvie Piggery Monitoring Programme Annual Report 2010-2011. Technical Report 2011-05.

## Appendix I

## Resource consents held by RKM Farms Ltd

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

#### Water abstraction permits

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

#### Water discharge permits

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

#### Air discharge permits

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

#### Discharges of wastes to land

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

#### Land use permits

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

#### Coastal permits

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

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

Name of RKM Farms Limited Consent Holder: 599B South Road

R D 12

**HAWERA 4672** 

Decision Date: 9 August 2010

Commencement Date: 9 August 2010

#### **Conditions of Consent**

Consent Granted: To discharge treated piggery effluent from an anaerobic and

twin aerobic pond treatment system, followed by a tertiary

treatment system, into the Tawhiti Stream

Expiry Date: 1 June 2028

Review Date(s): June 2012, June 2014, June 2016, June 2022

Site Location: 599A South Road, Hawera

Legal Description: Pt Lot 3 DP 3116

Grid Reference (NZTM) 1715327E-5614198N

Catchment: Tangahoe

Tributary: Tawhiti

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

#### **General condition**

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

#### **Special conditions**

#### Information to be submitted

- 1. The consent holder shall prepare a Site Layout Plan [drawing] which clearly shows the entire wastewater network system including the location and extent of the following:
  - The drainage system [e.g. swales] within the piggery sheds which the wastewater generated drains to;
  - The collection areas [e.g. sumps] for the wastewater prior to it being pumped to the pond treatment system;
  - The pipe network between the collection areas and pond treatment system;
  - The pond treatment system including the location of the pipe network between the ponds; and
  - Any other details which would assist in showing how the wastewater is conveyed from the piggery sheds to the wastewater treatment system.

The Plan shall be submitted to the Chief Executive, Taranaki Regional Council, within two months of the commencement date of this consent.

#### Wastewater discharge

- 2. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects on the environment from the exercise of this consent.
- 3. The number of pigs [equivalent 50 kg per pig] on the property at any one time shall not exceed 3636 pig equivalents.
- 4. After a mixing zone of 30 metres downstream of the point where the discharge enters the Tawhiti Stream, the discharge shall not, either by itself or in combination with other discharges, give rise to any or all of the following adverse effects in the Tawhiti Stream:
  - a) filtered carbonaceous biochemical oxygen demand must not exceed 2.00 gm<sup>-3</sup>; b) a level of unionised ammonia greater than 0.025 gm<sup>-3</sup>;
  - c) the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials;
  - d) any conspicuous change in the colour or visual clarity;
  - e) any emission of objectionable odour;
  - f) the rendering of fresh water unsuitable for consumption by farm animals; and
  - g) any significant adverse effects on aquatic life.

#### Consent 5108-2

- 5. In accordance with section 128 and 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 in any of the following years: 2012, 2014, 2016, 2022; for any of the following purposes:
  - a) Ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, and in particular to address any more than minor adverse effects relating to the discharge of wastewater; and/or
  - b) To determine any measures that may be appropriate to comply with condition 2 of this consent, and which are necessary to address any adverse effects of the discharge of wastewater from the site; and/or
  - c) To address any apparent deficiencies in the design of the pond treatment system.

Transferred at Stratford on 01 August 2013

For and on behalf of Taranaki Regional Council
Director-Resource Management

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

Name of RKM Farms Limited Consent Holder: 599B South Road

RD 12

Hawera 4672

Decision Date: 16 May 2017

Commencement Date: 16 May 2017

#### **Conditions of Consent**

Consent Granted: To discharge emissions into the air from a pig farming

operation and associated practices including effluent

treatment

Expiry Date: 1 June 2028

Review Date(s): June 2022

Site Location: 599B South Road, Hawera

Grid Reference (NZTM) 1714646E-5614435N

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 number of pigs (equivalent 50 kg per pig) on the property at any one time shall not exceed 3636 pig equivalents.
- 2. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any actual or likely adverse effect on the environment associated with the discharge of contaminants from the site.
- 3. Prior to undertaking any alterations to the piggery unit's processes, operations, equipment or layout, which may significantly change the nature or quantity of contaminants emitted from the site, the consent holder shall consult with the Chief Executive, Taranaki Regional Council, and shall obtain any necessary approvals under the Resource Management Act 1991 and its amendments.
- 4. The consent holder shall minimise the emissions and impacts of contaminants discharged into air from the site by:
  - (a) the selection of the most appropriate process equipment;
  - (b) process control equipment and emission control equipment;
  - (c) the methods of control;
  - (d) the proper and effective operation, supervision, maintenance and control of all equipment and processes; and
  - (e) the proper care of all pigs on the site.
- 5. The discharges authorised by this consent shall not give rise to an odour at or beyond the property boundary that is offensive or objectionable.
- 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 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 16 May 2017

For and on behalf of		
Taranaki Regional Council		
A D McLay		
Director - Resource Management		

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

Name of Lloyd Gernhoefer Contractor Limited

Consent Holder: PO Box 31

Eltham 4353

Decision Date 9 March 2021

Commencement Date 9 March 2021

#### **Conditions of Consent**

Consent Granted: To discharge the contents of dairy effluent treatment ponds,

dairy effluent storage ponds, and solids from herd homes to

land throughout the Taranaki region

Expiry Date: 1 June 2029

Review Date(s): June 2022, June 2025, June 2028

Site Location: Various locations throughout Taranaki region

Grid Reference (NZTM) Various

Catchment: Various

#### **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. For the purposes of this consent:
  - (a) Unless otherwise specified, 'effluent' includes its liquid, slurry and solid forms. It also includes sand trap cleanings; and
  - (b) 'Liquid effluent' is any effluent that is discharged through a pipe or spray equipment, any non-liquid effluent is 'solid effluent'.
- 2. All effluent shall only be discharged onto pasture on the property from which it was collected.
- 3. When removing effluent from anaerobic ponds the consent holder shall ensure that a minimum of one-third of the total volume of waste is retained in the pond following the operation.
- 4. The discharge shall not result in any effluent reaching surface water, any subsurface drainage system or any adjacent property.
- 5. The discharge shall not result in ponding on the surface that remains for more than 30 minutes after the discharge has ceased.
- 6. The discharge shall not occur on land with a slope that is likely to result in run off or at a rate which it cannot be assimilated by the soil/pasture system.
- 7. No contaminants shall be discharged within:
  - (a) 25 metres of any surface water body; or
  - (b) 25 metres of any fenced (or otherwise identified) urupa without the written approval of the relevant Iwi; or
  - (c) 50 metres of any bore or well;
  - (d) 50 metres of any spring used for water supply purposes; or
  - (e) 150 metres from any marae, unless the written approval of the marae Chair has been obtained to allow the discharge at a closer distance.
- 8. The consent holder shall ensure that over any June to May period the Total Nitrogen applied to land as a result of the discharge is no more than 200 kg per hectare. For discharges from dairy effluent treatment ponds and holding ponds this shall be achieved by discharging the waste collected as evenly as practicable over an area of no less than 4 ha for each 100 cows milked on the property.
- 9. Any settled sludges and solids from herd homes or the bottom zone of a storage facility, and any sand trap cleanings, shall be discharged to an area where there has been no effluent discharged in the previous 12 months.

10. The depth of liquid effluent discharged to land in any single discharge event shall not exceed the maximum application shown in the table below for the soil type that corresponds with soil in the area that the effluent is applied.

Soil Type	Maximum Application
Sand	15 mm
Sandy loam	24 mm
Silt loam	24 mm
Clay loam	18 mm
Clay	18 mm
Peat	20 mm

- 11. The consent holder shall maintain records associated with the exercise of this consent and make these available to the Chief Executive, Taranaki Regional Council, upon request. The records collected shall include:
  - (a) details, including owner and location, of property from which effluent is collected;
  - (b) date of discharge;
  - (c) source of discharge;
  - (d) volume of discharge;
  - (e) area (in hectares) over which the effluent was discharged; and
  - (f) specific location of area of land to which effluent was discharged.
- 12. The consent holder shall notify the Chief Executive, Taranaki Regional Council at least 24 hours prior to undertaking any discharge authorised by this consent. Notification shall include the property address, property owner and date of the proposed discharge. It shall be served by completing and submitting the 'Notification of work' form on the Council's website (<a href="http://bit.ly/TRCWorkNotificationForm">http://bit.ly/TRCWorkNotificationForm</a>).
- 13. If, as a consequence of the activity authorised by this consent, an event occurs that may have significant adverse effect on water quality in any watercourse, the consent holder shall as soon as reasonably practicable, telephone the Taranaki Regional Council and any downstream water supply operators, and notify them of the event.
- 14. This consent lapses 5 years after its commencement date (shown on the front of this document), 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 5352-3.1

15. The Taranaki Regional Council may review any or all of the conditions by giving notice of review during June 2022 and at 3-yearly intervals thereafter, for the purpose of ensuring that the conditions are adequate to deal with any significant adverse effects on the environment arising from the exercise of this consent, which either was not foreseen at the time the application was considered or which it was not appropriate to deal with at the time, including any new and improved methods relating to dairy effluent discharge.

Signed at Stratford on 9 March 2021

For and on behalf of Taranaki Regional Council

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A D McLay

**Director - Resource Management** 

### Appendix II

Categories used to evaluate environmental and administrative performance

## Categories used to evaluate environmental and administrative performance

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

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

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

#### **Environmental Performance**

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

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

#### For example:

- High suspended solid values recorded in discharge samples, however the discharge was to land or to receiving waters that were in high flow at the time;
- 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.