

## **DH Lepper Trust (Piggery)**

Monitoring Programme Annual Report 2023/24 Technical Report 2024-67

Taranaki Regional Council Private Bag 713 Stratford

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## **Executive summary**

DH Lepper Trust (the Company) operates a 'farrow to finish' piggery breeding and fattening unit located on 541 Mountain Road Lepperton, in the Waiongana Catchment. The facility includes a solids composting process and an anaerobic biogas digester that generates about half of the total electricity usage for the site. Effluent from the piggery is irrigated to land and to the Waiongana Stream.

This report for the period July 2023 to June 2024 describes the monitoring programme implemented by Taranaki Regional Council (the Council) to assess the Company's environmental and consent compliance performance during the period under review. The report also details the results of the monitoring undertaken and assesses the environmental effects of the Company's activities.

During the monitoring period, DH Lepper Trust Piggery demonstrated a high level of environmental performance and good level of administrative performance.

The Company holds one resource consent, which allows it to discharge effluent to land and into the Waiongana Stream, and one consent to discharge emissions to air at this site. These consents include a total of 34 conditions setting out the requirements that the Company must satisfy. Both consents are due to expire in 2026. The Company is currently investigating the feasibility to transition from dual discharge to land and water, to land only. The irrigation model currently in place does not yet support this transition however the Council is working with the Company to reach a solution.

The Council's monitoring programme for the year under review included three inspections and the collection of wastewater and receiving water samples for physicochemical analysis on one occasion.

The monitoring showed that the wastewater and receiving water samples were well within the consented limits with a high discharge to water dilution ratio observed during the survey. In addition, all discharge occasions occurred during periods of flow higher than the consented limit. As such, no negative environmental effects have been observed for the monitoring period in review. There were no unauthorised incidents recording non-compliance in respect of this consent holder during the period under review.

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

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

This report includes recommendations for the 2024/25 year.

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## 1. Introduction

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

### 1.1.1 Introduction

This report is for the period July 2023 to June 2024 by Taranaki Regional Council on the monitoring programme associated with resource consents held by DH Lepper Trust. The Company operates a piggery situated on 541 Mountain Road Lepperton, in the Waiongana Catchment.

The report includes the results and findings of the monitoring programme implemented by the Council in respect of the consents held by the Company that relate to discharges of treated effluent to water and land within the Waiongana Catchment, and the air discharge permit held by the Company to cover emissions to air from the site. This report is the 20<sup>th</sup> annual report to be prepared by the Council to cover the Company's air, land and water discharges and their effects.

## 1.1.2 Structure of this report

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

- consent compliance monitoring under the Resource Management Act 1991 (RMA) and the Council's obligations;
- the Council's approach to monitoring sites though annual programmes;
- the resource consents held by the Company in the Waiongana 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 2024/25 monitoring year.

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

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

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

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

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

## 1.1.4 Evaluation of environmental performance

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

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

## 1.2 Process description

The Trust operates a 'farrow to finish' piggery breeding and fattening unit. The approximate weights and numbers of the pigs are shown in Table 1 and the location of the piggery, land and wastewater treatment system within the Lepperton Township are shown in Figure 1.

The pigs are housed in purpose-built sheds with controlled heating and ventilation systems that regulate the internal environment to optimise conditions for stock production.

A feed mill located on site mixes the majority of the piggery's food requirements with grains and feed supplements. Recycled local waste food supplies, including waste bread, waste sausages and chicken by-products from local suppliers, are mixed to produce a protein meal for the stock.

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

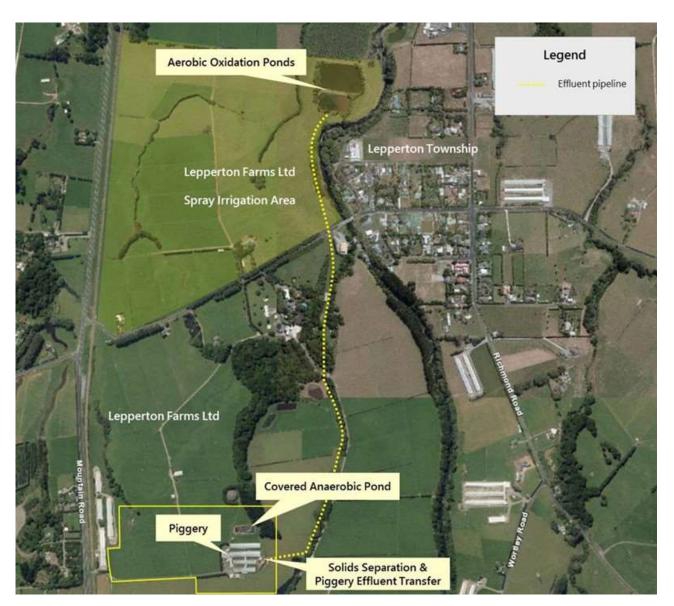


Figure 1 Location of DH Lepper Trust piggery, oxidation ponds, and Lepperton Township

Table 1 Piggery composition as at 30 June 2024

Type of pigs	No of pigs	Average weight kg	Total weight kg	50 kg Equivalent pigs
Sows	305	205	62,525	1,250.5
Gilts	71	142	10,082	201.6
Finishers	521	69	35,949	718.98
Growers	795	48	38,160	763.2
Stores	462	26	12,012	240.24
Weaners (5-8 weeks)	647	12	7,764	155.28
Suckers	842	2.1	1,768.2	35.36
Boars	9	220	1,980	39.6
Total	3,652			3,404.8

Stock holding pens are washed down on a daily basis and the waste conveyed through pipes to a central collection tank. From this point, all waste material is channeled through a solids separator (contra shear screen) which provides primary treatment by separating out the solid component from the piggery slurry.

Solid waste is stored in three large bins prior to being mixed at a ratio 1:1 with sawdust. This mixture is then transferred to a large, covered compost bunker where over a 40 day period it is aerated and heated to 70°C until well composted. The composting process elevates the temperature which kills harmful pathogens as well as helping to stabilise the product. The forced aeration provides oxygen for bacterial action. The final product is bagged and sold commercially as a soil conditioner.

After solids have been removed, the piggery wastewater drains to a liquids sump and is pumped to the inlet of the covered anaerobic pond.

Biogas is produced from the covered anaerobic pond digestive process and captured and stored beneath the plastic cover on the pond. The biogas (approximately 200m³ of gas daily) is compressed and forced through a hydrogen sulphide scrubber, powering a six-cylinder biogas engine that drives a 40 kilowatt generator, which generates half of the piggery's electricity needs.

Partially digested effluent from the covered anaerobic pond is gravity-fed via a pipeline directly to the offsite treatment ponds, approximately 1.5km away. The ponds are located on the true left bank of the Waiongana Stream near Lepperton.

Bacteria present in the two off-site treatment ponds break-down the contents of the effluent further.

The consent holder discharges treated water from the final aerobic pond to land via spray irrigation or periodically during high river flows, into the neighboring Waiongana Stream in compliance with the conditions of Consent 0715-4.1.

## 1.3 Resource consents

The Company holds two resource consents the details of which are summarised in Table 2 below. Summaries of the conditions attached to each permit are set out in Section 3 of this report.

A summary of the various consent types issued by the Council is included in Appendix I.

Table 2 Summary of consents held by the DH Lepper Trust piggery.

Consent number	Purpose	Granted	Review	Expires		
	Air discharge permit					
5206-2.1	To discharge emissions to air from a piggery operation and associated practices.		No further review	1 June 2026		
	Discharges of waste permit					
0715-4.1	To discharge treated piggery effluent from an oxidation pond system to land and into the Waiongana Stream during high flow conditions.	29 Sep 2015	No further review	1 June 2026		

## 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 piggery 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 piggery site was visited on three occasions during the monitoring period. With regard to consents for the discharge to water or land, the main points of interest were plant processes with potential or actual discharges to receiving watercourses, including contaminated stormwater and process wastewaters.

The piggery was also visited on an additional separate occasion, 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 assessed, so that performance in respect of operation, internal monitoring, and supervision could be reviewed by the Council.

Air inspections focused 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 Company were identified and assessed, so that performance in respect of operation, internal monitoring, and supervision could be reviewed by the Council. The neighbourhood was surveyed for environmental effects.

## 1.4.4 Chemical sampling

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 piggery discharge was sampled on one occasion, and the sample was analysed for conductivity, pH, chloride, turbidity, suspended solids, BOD<sub>5</sub> (total carbonaceous) and temperature. It was also analysed for nitrogen, phosphorus and potassium to determine the nutrient value for land irrigation purposes. The Waiongana Stream, upstream and downstream of the discharge point, was sampled on one occasion, and the samples analysed for conductivity, chloride, turbidity, suspended solids, BOD<sub>5</sub> (filtered carbonaceous), ammonia-N, DRP and temperature.

The locations of the water sampling locations are illustrated in Figure 2 and detailed in Table 3. Water quality sampling is generally performed by starting at the downstream monitoring site (WGA000363), followed by the piggery wastewater discharge (PGP002002), and finishing with the upstream monitoring site (WGA000361). Wastewater discharge samples are collected from the pond edge as near as possible to the discharge outlet.

Table 3 Location of sampling sites in the Waiongana Stream

Site	Location	Site code	GPS reference
Waiongana Stream upstream	Approx. 100m u/s discharge	WGA000361	N1704439, E5676128
Piggery pond treated effluent	Final pond treated effluent	PGP002002	N1704469, E5676209
Waiongana Stream downstream	100m d/s of discharge – true left bank	WGA000363	N1704466, E5676274

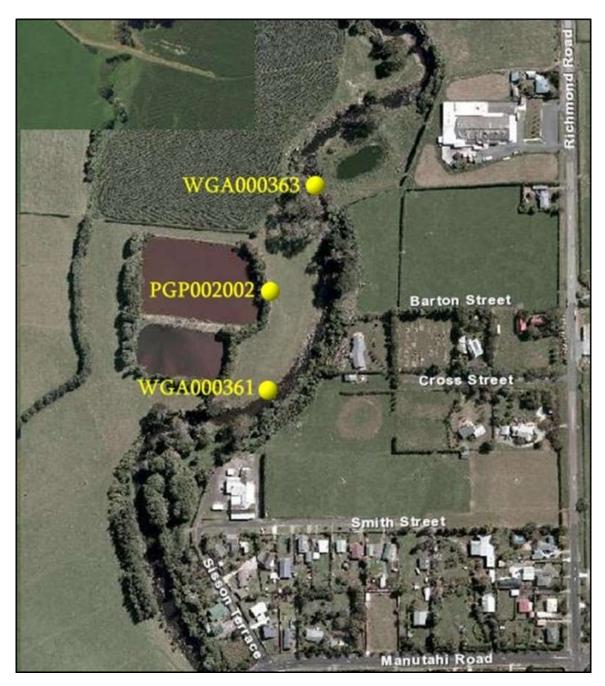


Figure 2 Location of sampling sites

## 2. Results

## 2.1 Inspections

Three inspections were undertaken at the Lepper piggery on 25 August 2023, 16 January 2024 and 22 April 2024. Air inspections during all three inspections confirmed that all odour was confined to the location of the piggery and effluent ponds. The methane pit was operating well with volumes visually estimated at 25-50% bloated. Effluent ponds viewed during inspections were found to be at a moderate to high level. The main effluent collection sump was operating well with effluent contained and bunded. During the first two inspections, some effluent was observed under the southernmost pens however this was contained to the direct vicinity of pens. No issues were noted with the dry matter separator or fertiliser mixing zone. Overall, the site was kept tidy and no environmental issues were noted.

## 2.2 Water

#### 2.2.1 Wastewater trends

Trends in various parameters are graphed in Figure 3-Figure 7 since monitoring began in 2003. The concentrations for the parameters remain typical of piggery pond treated wastewater, which is particularly high in nutrient levels.

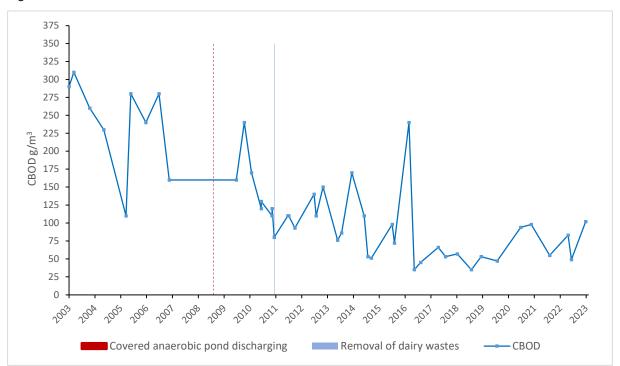


Figure 3 Wastewater carbonaceous biochemical oxygen demand levels (g/m³) from 2003-2023

Since the wastewater system upgrade in 2008, the observed  $CBOD_5$  concentrations in the discharge have generally decreased over time. Figure 3 indicates  $CBOD_5$  concentrations in the 2023/24 monitoring year were similar to that of 2020/21. Fluctuations since this time have been minimal and largely insignificant.

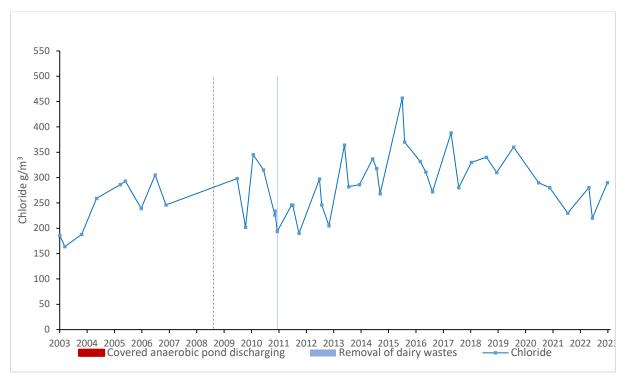


Figure 4 Wastewater chloride levels (g/m³) from 2003-2023

Figure 4 show chloride levels have fluctuated over time. A decreasing trend is seen from 2020-2023 with the most recent results showing an increase in chloride concentrations in comparison to the previous monitoring year.

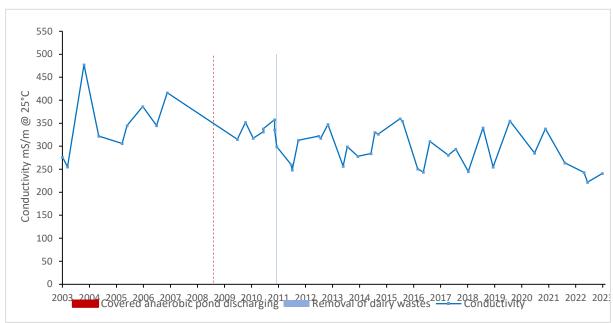


Figure 5 Wastewater conductivity measurements (mS/m) from 2003-2023 at 25°C

Figure 5 indicates conductivity<sup>2</sup> measurements continue to be stable over the 20-year monitoring duration.

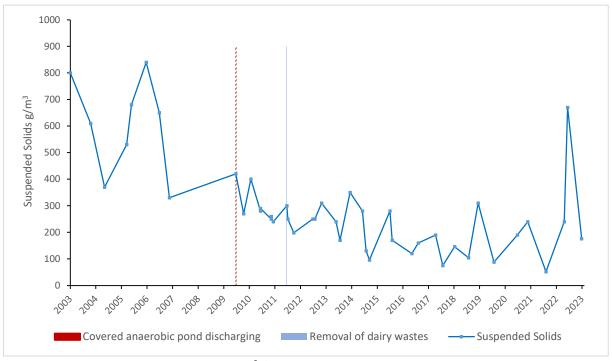


Figure 6 Wastewater suspended solids levels (g/m³) from 2003-2023

After a large spike in suspended solids levels in the previous monitoring year, Figure 6 shows that measurements have returned to the decreasing trend seen prior to this spike in 2023.

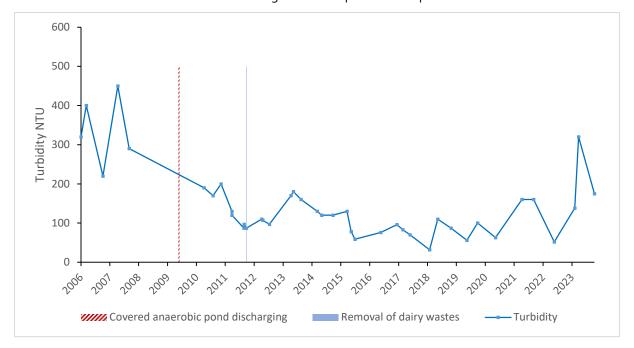


Figure 7 Wastewater turbidity levels (NTU) from 2003-2023

<sup>2</sup> In June 2018 a change in laboratory provider occurred, resulting in a slight change to the units used for conductivity. In this graph, the units mS/m at 25°C are used, and all previous results have been converted to this unit. Therefore, there may be differences between conductivity data presented in the current report when compared with reports prior to the 2019/20 monitoring year.

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Since 2008, wastewater turbidity levels have shown a decreasing trend with the highest value since 2007 sampled in May 2023 (320 NTU). The most recent sampling undertaken in November 2023 has seen a significant decrease to a turbidity value of 175 NTU.

## 2.2.2 Results of discharge and receiving water monitoring

During the monitoring period, samples were collected on one occasion from three sites as shown in Table 4. Typically, the consent holder will notify the Council when the discharge to water is being exercised as per Consent 0715-4.1. The visual assessment indicated no change in the visual clarity or colour of the receiving waters at the boundary of the mixing zone. The discharge is tested for the nutrient (nitrogen and potassium) levels in the effluent for land irrigation purposes when not discharging to water.

Table 4 Results of the receiving water compliance survey on 20 November 2023.

Site		WGA000361	PGP002002	WGA000363	Consent
Parameter	Unit	Upstream	Discharge	Downstream	Limit
Time	NZST	12:20	12:00	12:10	
Temperature	°C	14.6	17.4	14.7	
Conductivity @ 25°C	mS/m	7.9	241	7.9	
Chloride	g/m³	7.3	290	7.3	
рН	рН	7.4	7.9	7.4	
BOD <sub>5</sub> (total carbonaceous)	g/m³	-	105	-	
BOD <sub>5</sub> (carbonaceous filtered)	g/m³	1.2	-	1.2	2.0g/m³(d/s)
Ammoniacal nitrogen	g/m³N	0.100	103	0.100	
Un-ionised ammonia	g/m³N	0.00065	2.7	0.00080	0.025g/m³ (d/s)
Dissolved reactive phosphorus	g/m³P	0.049	30	0.056	
Suspended solids	g/m³	12	176	12	
Turbidity	NTU	-	175	-	
Turbidity	FNU	8.8	-	8.4	
Nitrogen (TKN)	g/m³	-	125	-	
Nitrogen (TN)	g/m³	-	127	-	
Potassium (TK)	g/m³	-	270	-	
Appearance	·	Turbid Brown	Yellow Green	Turbid Brown	

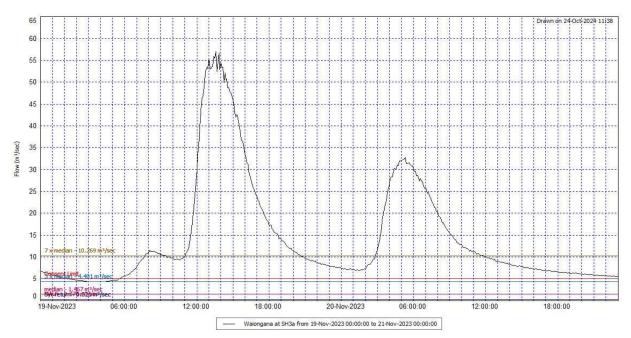


Figure 8 Flow data recorded for the Waiongana Stream during the discharge of wastewater from Lepper Piggery

**Note:** 19 November 2023 to 20 November, discharging from 16:45-18:45. Samples collected between 12:00 and 12:25 on the 20 November 2023.

Discharge sampling occurred during a flow rate of 10.443m³/s, as represented in Figure 8. As such, the dilution rate at this time was approximately 1 part effluent to 746 parts receiving water (746:1). During the highest stream flow rate on the 19<sup>th</sup> of November (57m³/s), the dilution rate would have been approximately 1 part effluent to 4071 parts receiving water (4071:1). Sampling results further conclude that reasonable mixing is occurring during the discharge period with minimal difference between upstream and downstream sampling parameters (Table 5).

## 2.2.3 Treated effluent discharge records

The consent holder provides data on treated wastewater discharges to the Waiongana Stream upon request, or as required. This data is presented in Table 5 below.

Table 5 Discharge records of piggery treated wastes to the Waiongana Stream 2023/24

Discharge date	Duration (approx. hours)	Stream flow above 5m³/s
02 July 2023	9	Yes
03 July 2023	8.5	Yes
14 August 2023	3.5	Yes
19 August 2023	22	Yes
06 September 2023	3.5	Yes
23 September 2023	19	Yes
07 October 2023	4.75	Yes
17 November 2023	19.25	Yes
19 November 2023	26	Yes
29 December 2023	32.10	Yes
12 April 2024	16	Yes
13 April 2024	6.25	Yes
26 April 2024	10	Yes

Discharge date	Duration (approx. hours)	Stream flow above 5m³/s
23 June 2024	11.5	Yes
Total discharge hours	210.85	-

These records indicate that the treated effluent discharge into the Waiongana Stream was well managed on all occasions with all discharging occurring when stream flow was above 5m<sup>3</sup>/s.

The Waiongana Stream hydrology displays a natural rapid rise and fall (typical of Taranaki ring plain streams), which allows for a limited window of opportunity when treated wastewater can be discharged above the minimum consent limit. The consent holder has access to the Council web site, which provides current river flow and water levels for the Waiongana Stream recorded at SH3A at the time of discharging.

The consent holder also has access to the Council's Hydrotel text messaging service and is notified automatically when the Waiongana Stream flow exceeds 5m³/s and again when the stream flow recedes back to minimum consent conditions. Direct communication between the consent holder and the Council further ensures that any sampling to be taken place, occurs during the discharge period.

The Council's telemetered hydrology station is approximately 4km upstream from the piggery discharge point.

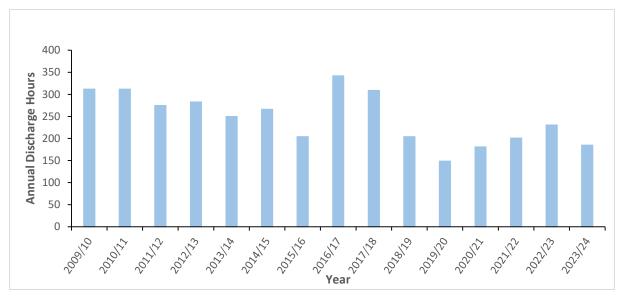


Figure 9 Yearly discharge hours from 2009 to 2024

Over the past fifteen years, the average discharge volume has been calculated to be 12,449m³ per annum (248 average discharge hours x 14L/s discharge flow rate (50.4m³/hour)). Comparing the current monitoring period discharge volume (9921m³) to the average, the volume discharged this year, decreased by approximately 20%.

For the 2023/24 monitoring period, there was a 14.6% decrease in the volume of treated wastewater discharged into the Waiongana Stream, in comparison to the previous year. The slight reduction is likely attributed to lower than average stream flows, resulting in less discharge hours available.

## 2.2.4 Discharge to land monitoring

The implementation of the land-based irrigation system as supplied by the consent holder, was to be phased in from 2017 to 2023. The initial stages included the set-up of the irrigation system such as the installation of the pump shed and the construction of the spray irrigation mainline and hydrants. An effluent irrigation system of 29ha/m was installed by June 2020 with discharge to land maximised and discharge to water minimised.

During the current monitoring period, no discharge to land was undertaken by the Company due to high levels of potassium in the effluent. The Company has undertaken soil sampling conducted by an external party, to increase understanding of total allowable discharge to land volumes that prevent excessive K loading.

During the past two years, the Council has been undertaking a full review of its Regional Policy Statement, Regional Freshwater Plan, Regional Air Plan and Regional Soil Plan under the RMA. All plans will be combined into one Regional Plan, namely the Natural Resources Plan (NRP). As part of this review, the Council will be incorporating limits/prohibitions around effluent discharges into rivers and streams. As such, a transition from dual discharge to land and water, to only land, is of priority for the Company.

The two pressing issues the consent holder continues to face, are that of high levels of potassium from irrigated wastewater and the total land available for irrigation. As of yet, the consent holder requires twice the amount of land available with the current potassium levels, in order to move entirely from discharge to water to land.



Photo 1 Pump shed on the final aerobic pond for spray irrigating treated piggery effluent to land



Photo 2 Covered anaerobic digester pond capturing methane for power production



Figure 10 Piping and hydrants locations of the bottom block with current and proposed piping extension

Total area of land available to receive the discharge to land;

- Top Block = 17.7ha
- Bottom Block = 29.0ha
- Total area = 46.7ha
- Less set back areas from drains = 5.0ha
- Total area available to receive effluent = 41.7ha

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

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

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

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

## 3. Discussion

## 3.1 Discussion of site performance

During the three inspections of the piggery, the production facility and effluent treatment system were found to be operating in accordance with best practice. No objectionable or offensive odour was observed beyond the plant boundary on all occasions.

With the installation of the effluent irrigation system in June 2020, an effort to shift discharging practices from water to land has been observed in previous years, however higher nutrient levels during the 2023/24 monitoring period have meant no discharge to land was feasible without compromising stock health.

The Council now has an emphasis on transitioning from the dual land/water effluent disposal system to discharging solely to land, thereby reducing and potentially eliminating any environmental effects on the stream. As of yet, the Company has not achieved this requirement based on the current irrigation model. Investigations on potential future options for the operation are in discussion between TRC and Lepper Piggery Ltd. Consent renewals are upcoming in 2026 and a resolution is being worked towards in preparation for this date.

The Waiongana Stream flow rate was above the consented limit on all discharge occasions.

For the 2023/24 monitoring period, records of pig numbers (Table 1) and effluent discharges were provided, as required. The piggery size and number of 50kg equivalents remain mainly unchanged and met the consent limit.

## 3.2 Environmental effects of exercise of consents

The discharge of wastewater to Waiongana Stream has not shown to have any impact on visual clarity. As in previous years, nutrient levels downstream of the discharge differ insignificantly from the upstream site and as such, it is inferred environmental effects are no more than minor.

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 odour to be confined to the piggery.

## 3.3 Evaluation of performance

A tabular summary of the consent holder's compliance record for the year under review is set out in Tables 6-8.

Table 6 Summary of performance for Consent 0715-4.1

Pu	Purpose: To discharge treated piggery effluent to land and water from an oxidation pond treatment system			
	Condition requirement	Means of monitoring during period under review	Compliance achieved?	
1.	Maximise discharge to land and minimised discharge to water	Monitoring inspections	Yes	
2.	Effluent generated from allowable pig numbers	Monitoring inspections and consent holder data	Yes	
3.	Adopt best practical option to minimise environmental effects	Monitoring inspections	Yes	
4.	Effluent treated via appropriate pond system	Monitoring inspections and sampling	Yes	
5.	Discharge from the aerobic ponds only	Monitoring inspections	Yes	

Condition requirement	Means of monitoring during period under review	Compliance achieved?
No overflows from the effluent disposal system	Monitoring inspections	Yes
7. Provide sufficient storage for effluent	Monitoring inspections	Yes
8. Minimise solids from first to second pond	Monitoring inspections and sampling	Yes
<ol><li>Operation and discharge in accordance with consent</li></ol>	Monitoring inspections and sampling	Yes
10. Maintain records of discharge to land and water	The consent holder to provide when requested by Council	Yes
Consent to be exercised in accordance of the Piggery Effluent Disposal Plan	Draft Plan to be submitted to Council 14 December 2016 - #1794157. Will require update if consent is renewed.	N/A
Consent to be exercised in accordance with the Effluent Irrigation Management Plan	Draft submitted 14 December 2016 - #1794157. Will require update if consent is renewed.	N/A
13. Land Disposal Options Report	Submitted 17 May 2021 – #2788109. Will require update if consent is renewed.	N/A
14. All plans and reports to be supplied to Fish and Game	In progress	N/A
15. Discharge rate not to exceed 16L/s	Monitoring inspections indicate 14L/s	Yes
16. Discharge only when river conditions allow	conditions Consent holder's discharge records and monitoring	
17. Location of discharge point	Monitoring inspections	Yes
18. Safe access to sampling point	ss to sampling point Monitoring inspections and sampling	
19. Maximum concentrations in receiving water	Monitoring inspections and sampling	Yes
20. Even effluent application to land	Monitoring inspections and sampling	Yes
21. No effluent ponding on land	Monitoring inspections and sampling	Yes
22. Limits on potassium applied to land	Monitoring inspections and sampling	Yes
23. Limits on total nitrogen applied to land	Monitoring inspections and sampling	Yes
24. No discharge within 25m of surface water	Monitoring inspections and sampling	
25. Notification of unauthorised effluent discharge	nt Monitoring and self-notification Yes	
26. Review of consent	No further review	N/A
Overall assessment of consent compliance consent	and environmental performance in respect of this	High
Overall assessment of administrative perfor	mance in respect of this consent	Good

## N/A = not applicable

Table 7 Summary of performance for Consent 5206-2.1.

Purpose: To discharge emissions into the air from a pig farming operation and associated practices including solids composting, effluent treatment and other waste management activities		
Condition requirement	Means of monitoring during period under review	Compliance achieved?
Total allowable number of pigs on site	Monitoring inspections and consent holder records	Yes

	Condition requirement	Means of monitoring during period under review	Compliance achieved?
2.	Adopt best practical option to minimise adverse effects on the environment	Monitoring inspections and consent review process	Yes
3.	Consultation and approval prior to alterations to plant and equipment	Monitoring inspections and consent review process	Yes
4.	Minimisation of emissions and impacts	Monitoring inspections	Yes
5.	Offensive objectionable odour at site boundary not permitted	Monitoring inspections	Yes
6.	Deemed objectionable odour to be offensive	Monitoring inspections	Yes
7.	Odour management plan	Plan to be submitted to Council	Yes
8.	Review of consent conditions	No further review	N/A
Overall assessment of consent compliance and environmental performance in respect of this consent		High	
Overall assessment of administrative performance in respect of this consent			High

#### N/A = not applicable

Table 8 Evaluation of environmental performance over time

Year	Consent numbers	High	Good	Improvement req	Poor
2019-2020	0715, 5206	2	-	-	-
2020-2021	0715, 5206	2	-	-	-
2021-2022	0715, 5206	2	-	-	-
2022-2023	0715, 5206	2	-	-	-
2023-2024	0715, 5206	2	-	-	-

During the year, the Trust demonstrated a high level of environmental and a good level of administrative performance with the resource consents as defined in Appendix II. We will require updated management plans if the consent is to be renewed.

## 3.4 Recommendations from the 2022/23 Annual Report

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

- 1. THAT in the first instance, monitoring of consented activities at D H Lepper Trust Piggery in the 2023/24 year continue at the same level as in 2022/23 period.
- 2. THAT should there be issues with environmental or administrative performance in 2022/23, monitoring may be adjusted to reflect any additional investigation or intervention as found necessary.

## 3.5 Alterations to monitoring programmes for 2024/25

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

- the extent of information already made available through monitoring or other means to date;
- its relevance under the RMA;
- the Council's obligations to monitor consented activities and their effects under the RMA;

- the record of administrative and environmental performances of the consent holder; and
- reporting to the regional community.

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

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

## 4. Recommendations

- 1. THAT in the first instance, monitoring of consented activities at D H Lepper Trust Piggery in the 2024/25 year continue at the same level as in 2023/24 period.
- 2. THAT should there be issues with environmental or administrative performance in 2024/25, monitoring may be adjusted to reflect any additional investigation or intervention as found necessary.

## Glossary of common terms and abbreviations

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

Biomonitoring Assessing the health of the environment using aquatic organisms.

BOD<sub>5</sub> 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<sub>5</sub> Carbonaceous biochemical oxygen demand. A measure of the presence of

degradable organic matter, excluding the biological conversion of ammonia to

nitrate.

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

a sample by chemical reaction.

Conductivity 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 (1m<sup>3</sup>s-<sup>1</sup>).

DO Dissolved oxygen.

DRP Dissolved reactive phosphorus.

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

g/m²/day grams/metre²/day.

g/m³ Grams per cubic metre, and equivalent to milligrams per litre (mg/L). In water, this is

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

mixtures.

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.

 $\mu S/cm$  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.

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 Resource Management Act 1991 and including all subsequent amendments.

SS Suspended solids.

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

Turb Turbidity, expressed in NTU or FNU.

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

## Bibliography and references

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- Taranaki Regional Council (1990). Review of monitoring and inspectoral procedures for dairy shed oxidation pond waste treatment systems. Taranaki Regional Council Technical Report 90-42.

## Appendix I

# Resource consents held by the Company

(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

Lepperton Farms (2021) Limited

Consent Holder:

**Decision Date** 

(Change):

23 January 2018

Commencement Date

(Change):

23 January 2018 (Granted Date: 29 September 2015)

## **Conditions of Consent**

Consent Granted: To discharge treated piggery effluent from an oxidation pond

treatment system to land and into the Waiongana Stream

during fresh (high flow) conditions

Expiry Date: 1 June 2026

Review Date(s): June 2023

Site Location: Manutahi Road, Lepperton

Grid Reference (NZTM) 1704471E-5676221N (Water)

1703992E-5675964N (Land)

Catchment: Waiongana

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

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#### **General condition**

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

## **Special conditions**

- 1. This consent shall be exercised in a manner that ensures, to the greatest extent practicable, the discharge of treated effluent to land is maximised and the discharge to water minimised.
- 2. The effluent discharged shall be from piggery of no more than 3529 (50 kg) pig equivalents.
- 3. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any adverse effects of the discharge on the environment.
- 4. All effluent generated at the piggery site shall be treated in a system of oxidation ponds, involving at least one anaerobic pond and two aerobic ponds.
- 5. Any discharge shall be from the aerobic pond on site.
- 6. There shall be no overflow of effluent from any part of the effluent disposal system.
- 7. The consent holder shall ensure that at all times, while complying with the other requirements of this consent, there is sufficient storage available in the effluent treatment system for any reasonably likely inflow, so that there is no unauthorised discharge to land or water.
- 8. A flow control structure, such as a 'tee-piece' pipe or other baffle system that achieves the same outcome, shall be maintained and operated on the outlet of the first oxidation pond so as to minimise the movement of solids from the pond.
- 9. The effluent treatment system and disposal system shall be operated and maintained to ensure compliance with the conditions of this consent. Operation and maintenance shall include as a minimum:
  - (a) vegetation control on and around the storage facility;
  - (b) desludging;
  - (c) ensuring that there is adequate freeboard in ponds to allow for contingencies such as a pipe blockage; and
  - (d) cleaning, repairing and generally ensuring the integrity of the:
    - (i) irrigator;
    - (ii) stormwater diversion;
    - (iii) sand trap;
    - (iv) piping;
    - (v) pump(s);
    - (vi) pond wall; and
    - (vii) fences.

#### Consent 0715-4.1

- 10. The consent holder shall keep accurate records of effluent application to land and water, including, as a minimum, the:
  - (a) type of effluent (e.g. solid, liquid);
  - (b) volume of effluent applied;
  - (c) rate and duration of application;
  - (d) loading of potassium and nitrogen over the discharge area;
  - (e) paddock and area (ha) that the effluent was applied to;
  - (f) date the paddock received effluent;
  - (g) wind direction;
  - (h) any odour from the land application;
  - (i) any complaints received, including dates and times; and
  - (j) date, duration (start and finish times), rate and volume of the discharge to the Waiongana Stream.

This information shall be provided to the Taranaki Regional Council upon request.

- 11. From 1 November 2016 and subject to the other conditions of this consent, this consent shall be exercised in accordance with a *Piggery Effluent Disposal Management Plan* (the 'Management Plan') that has been approved by the Chief Executive, Taranaki Regional Council, acting in a certification capacity. The Management Plan shall detail how the consent holder will manage the dual discharge to ensure that adverse environmental effects are avoided as far as practical, and consent conditions are met and can be shown to be met. It shall address as a minimum:
  - (a) methods and procedures for maximising the discharge of contaminants to land;
  - (b) methods and procedures for minimising the discharge of contaminants to the Waiongana Stream;
  - (c) the staged implementation of the discharge to land, including the amount of discharge and area of land for disposal at each stage;
  - (d) monitoring the quality and rate of the discharge;
  - (e) monitoring the quality and flow of the Waiongana Stream;
  - (f) management of the wastewater treatment system;
  - (g) minimisation of potassium, nitrogen and phosphorus in the wastewater discharge and how this is being achieved;
  - (h) methods for determining the amount of nitrogen and potassium discharged to land; and
  - (i) reporting on the exercise of the consent.

- 12. From 1 November 2016, and subject to the other conditions this consent, this consent shall be exercised in accordance with an Effluent Irrigation Management Plan ('EIMP') that has been approved by the Chief Executive, Taranaki Regional Council, acting in a certification capacity. The EIMP shall detail how the application of effluent will be managed to ensure that the soil moisture deficit in not exceeded on high risk soils or soils with slopes of more than 7 degree and effluent will be retained in the top 300 mm for low risk soils including, as a minimum, details of:
  - (a) area(s) to be irrigated and the method of irrigation;
  - (b) evapotranspiration and available water holding capacity of the soil(s) over the irrigated area;
  - (c) how irrigation will be scheduled to maximise the benefits of evapotranspiration and minimise subsurface drainage;
  - (d) how available soil water will be determined;
  - (e) how water is to be applied as uniformly as practicable over the irrigated area, and the uniformity of application demonstrated; and
  - (f) information to be provided to the Taranaki Regional Council to enable compliance to be checked.

<u>Note</u>: The 'Effluent Irrigation Management Plan' may be combined with the 'Piggery Effluent Disposal Management Plan' required by condition 11.

- 13. Before 1 June 2021, the consent holder shall provide a *Land Disposal Options Report* (LDOR) to the Chief Executive, Taranaki Regional Council. The purpose of the LDOR is to detail the feasibility of disposing all of the effluent to land. The report will include, as a minimum:
  - (a) details of the proportion of contaminants that have been discharged to land to date;
  - (b) a general assessment of the efficacy of land disposal based on experience at the site taking into account such matters as cost and environmental benefits;
  - (c) an assessment of the land area that would be needed to dispose of all the effluent to land; and
  - (d) identification of specific areas of land that could be used for expanded land disposal.
- 14. Plans and reports submitted to the Chief Executive, Taranaki Regional Council in accordance with conditions 11, 12 and 13 shall also be provided to Fish and Game New Zealand at the same time. Any comments made by Fish and Game New Zealand within 15 working days of receiving a plan or report may be taken into account by the Chief Executive, Taranaki Regional Council when determining if the plan or report meets the requirements of this consent.

#### Discharge to water conditions

- 15. The rate of the discharge to water shall not exceed 16 litres/second.
- 16. The discharge from the pond to the Waiongana Stream shall occur only when the flow in the Waiongana Stream measured at the Taranaki Regional Council SH3A monitoring site is greater than 5 cubic metres per second.

- 17. The discharge point into the Waiongana Stream shall be located at (NZTM) 1704471E–5676221N. This point of discharge shall be beneath the surface of the receiving water.
- 18. The consent holder shall ensure that there is always clear and safe access to a point where the effluent from the final pond can be sampled.
- 19. The discharge shall not cause the maximum concentration of any constituent shown in the following table to be exceeded in the receiving water more than 50 metres downstream of the discharge to the receiving water.

Constituent	Maximum Concentration		
Unionised ammonia	0.025 gm <sup>-3</sup>		
Filtered carbonaceous BOD <sub>5</sub>	2.0 gm <sup>-3</sup>		

## Discharge to land conditions

- 20. From 1 June 2020, the consent holder shall ensure that effluent application to land is as evenly as practicable over an area of no less than 24.6 hectares.
- 21. Discharges to land shall not result in effluent ponding on the surface that remains for more than 30 minutes.
- 22. Over any 12 month period the amount of potassium (K) applied to land as a result of the discharge shall not exceed 100 kg per hectare.
- 23. Over any 12 month period the amount of Total Nitrogen (N) applied to land as a result of the discharge shall not exceed 200 kg per hectare.
- 24. The discharge authorised by this consent shall not occur within 25 metres of any surface water body.
- 25. Where, for any cause (accidental or otherwise), untreated or partially treated effluent associated with the consent holder's operations escapes to surface water, the consent holder shall:
  - (a) immediately notify the Taranaki Regional Council on Ph. 0800 736 222 (notification must include either the consent number or farm dairy number); and
  - (b) stop the discharge and immediately take steps to control and stop the escape of untreated or partially treated effluent to surface water; and
  - (c) immediately take steps to ensure that a recurrence of the escape of untreated or partially treated effluent to surface water is prevented; and
  - (d) report in writing to the Chief Executive, Taranaki Regional Council, describing the manner and cause of the escape and the steps taken to control it and to prevent it reoccurring. The report shall be provided to the Chief Executive within seven (7) days of the occurrence.

#### Consent 0715-4.1

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 2021 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, including consideration, following receipt of the report required by condition 13, of the feasibility of expanding the irrigation area to dispose of all effluent to land.

Transferred at Stratford on 31 January 2022

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

Lepperton Farms (2021) Limited

Consent Holder:

**Decision Date** 

(Change):

8 September 2015

**Commencement Date** 

(Change):

29 September 2015 (Granted Date: 13 November 2008)

### **Conditions of Consent**

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

operation and associated practices including solids

composting, effluent treatment system, effluent application

to land and other waste management activities

Expiry Date: 1 June 2026

Site Location: Mountain Road, Lepperton

Grid Reference (NZTM) 1703992E-5675964N (Land & air)

1704041E-5674835N (Air)

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

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#### **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 number of pigs (equivalent 50 kg per pig) on the property at any one time shall not exceed 3529 pig equivalents.
- 2. Notwithstanding any other condition of this consent, the consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any 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. For the purposes of condition 5, an odour shall be deemed to be offensive or objectionable if:
  - (a) it is held to be so in the opinion of an enforcement officer of the Taranaki Regional Council, having regard to the duration, frequency, intensity and nature of the odour; and/or
  - (b) an officer of the Taranaki Regional Council observes that an odour is noticeable, and either it lasts longer than three (3) hours continuously, or it occurs frequently during a single period of more than six (6) hours; and/or
  - (c) no less than three individuals from at least two different properties, each declare in writing that an objectionable or offensive odour was detected beyond the boundary of the site, provided the Council is satisfied that the declarations are not vexatious and that the objectionable or offensive odour was emitted from the site at the frequency and duration specified in (b). Each declaration shall be signed and dated and include:
    - i. the individuals' names and addresses;
    - ii. the date and time the objectionable or offensive odour was detected;
    - iii. details of the duration, frequency, intensity and nature of the odour that cause it to be considered offensive or objectionable;
    - iv. the location of the individual when it was detected; and
    - v. the prevailing weather conditions during the event.
- 7. Prior to any discharge in accordance with consent 0715-4, the consent holder shall provide an Odour Management Plan which details to the satisfaction of the Chief Executive of Taranaki Regional Council how odorous emissions beyond the property boundary will be minimised. The plan shall include:
  - (a) A definition of the environmental effects being managed by the plan and the objective sought in relation to this effect;
  - (b) Identify key personnel responsible to managing the effect;
  - (c) Describe the activities on the site and describe the main potential sources of odour emissions;
  - (d) Identify and describe methods of mitigation and operating procedures including the dewatering of the anaerobic pond or during control contingency discharge events;
  - (e) Monitoring methods including record keeping of maintenance and control parameters, any odour complaints received and weather conditions present at time of complaints.

Thereafter, the piggery and associated waste management practices shall be operated in accordance with the plan.

#### Consent 5206-2.1

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 2020, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

Transferred at Stratford on 31 January 2022

For and on behalf of Taranaki Regional Council

Director - Resource Management

## Appendix II

Categories used to evaluate environmental and administrative performance

## Categories used to evaluate environmental and administrative performance

Environmental performance is concerned with <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.