

Discharge of Treated Wastewater and Pond Solids to Land – Conditions																																												
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	<p>Definitions:</p> <p>In the following conditions:</p> <table><tr><td>Land treatment area</td><td>Means the land identified in Plan Number ? to which treated wastewater will be applied.</td></tr><tr><td>Treated wastewater</td><td>Means secondary treated wastewater derived from the Permit Holder’s Manawatu Processing plant’s wastewater treatment and storage ponds.</td></tr><tr><td>Pond solids</td><td>Means the solids that have settled out and been retained in the Permit Holder’s Manawatu Processing plant’s wastewater treatment ponds.</td></tr><tr><td>Paunch solids</td><td>Means undigested gut contents removed from slaughtered livestock.</td></tr><tr><td>Treated organic solids</td><td>Means pond solids or paunch solids or a mixture of both types of solid material.</td></tr><tr><td>The Activities</td><td>Means the activities authorised by this permit as described in Condition 2.</td></tr></table>	Land treatment area	Means the land identified in Plan Number ? to which treated wastewater will be applied.	Treated wastewater	Means secondary treated wastewater derived from the Permit Holder’s Manawatu Processing plant’s wastewater treatment and storage ponds.	Pond solids	Means the solids that have settled out and been retained in the Permit Holder’s Manawatu Processing plant’s wastewater treatment ponds.	Paunch solids	Means undigested gut contents removed from slaughtered livestock.	Treated organic solids	Means pond solids or paunch solids or a mixture of both types of solid material.	The Activities	Means the activities authorised by this permit as described in Condition 2.																															
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	Consent Duration																																											
1	Discharge Permit Number shall expire on 1 July 2049.																																											
	Authorised Discharge Activities																																											
2	<p>The activity authorised by this Discharge Permit are restricted to:</p> <p>a) the discharge of treated wastewater by irrigation onto or into land in the land treatment area; and</p> <p>b) the discharge of treated organic solids onto or into land in the land treatment area.</p>	No comments																																										
3	<p>Any discharge undertaken in accordance with Condition 2 shall occur on land legally described as:</p> <table><tr><th>Legal Description</th><th>Owner</th></tr><tr><td>Part Section 225 Sbdn A Manchester DIST</td><td>Byreburn Limited</td></tr><tr><td>Lot 191 DP 100</td><td>Byreburn Limited</td></tr><tr><td>Section 5 Block XIV Oroua SD</td><td>Byreburn Limited</td></tr><tr><td>Lot 2 DP 89128</td><td>Byreburn Limited</td></tr><tr><td>Lot 1 DP 57580</td><td>Byreburn Limited</td></tr><tr><td>Lot 1 DP 89045</td><td>Byreburn Limited</td></tr><tr><td>Lot 2 DP 89045</td><td>Byreburn Limited</td></tr><tr><td>Lot 30 DP 2688</td><td>Byreburn Limited</td></tr><tr><td>Lot 31 DP 2688</td><td>Byreburn Limited</td></tr><tr><td>Lot 3 DP 89045</td><td>AFFCO New Zealand Limited</td></tr><tr><td>Sbdn 1 Sec 12 Block XIV Oroua SD</td><td>AFFCO New Zealand Limited</td></tr><tr><td>Part Section 13 Clock XIV Kairanga SD</td><td>AFFCO New Zealand Limited</td></tr><tr><td>Lot 28 DP 2688</td><td>AFFCO New Zealand Limited</td></tr><tr><td>Lot 24 DP 2688</td><td>AFFCO New Zealand Limited</td></tr><tr><td>Lot 23 DP 2688</td><td>AFFCO New Zealand Limited</td></tr><tr><td>Lot 22 DP 2688</td><td>AFFCO New Zealand Limited</td></tr><tr><td>Lot 21 DP 2688</td><td>AFFCO New Zealand Limited</td></tr><tr><td>Part Aorangi 1C Block</td><td>Dalcam Company Limited</td></tr><tr><td>Lot 19 DP 2688</td><td>Dalcam Company Limited</td></tr><tr><td>Lot 18 DP 2688</td><td>Dalcam Company Limited</td></tr></table>	Legal Description	Owner	Part Section 225 Sbdn A Manchester DIST	Byreburn Limited	Lot 191 DP 100	Byreburn Limited	Section 5 Block XIV Oroua SD	Byreburn Limited	Lot 2 DP 89128	Byreburn Limited	Lot 1 DP 57580	Byreburn Limited	Lot 1 DP 89045	Byreburn Limited	Lot 2 DP 89045	Byreburn Limited	Lot 30 DP 2688	Byreburn Limited	Lot 31 DP 2688	Byreburn Limited	Lot 3 DP 89045	AFFCO New Zealand Limited	Sbdn 1 Sec 12 Block XIV Oroua SD	AFFCO New Zealand Limited	Part Section 13 Clock XIV Kairanga SD	AFFCO New Zealand Limited	Lot 28 DP 2688	AFFCO New Zealand Limited	Lot 24 DP 2688	AFFCO New Zealand Limited	Lot 23 DP 2688	AFFCO New Zealand Limited	Lot 22 DP 2688	AFFCO New Zealand Limited	Lot 21 DP 2688	AFFCO New Zealand Limited	Part Aorangi 1C Block	Dalcam Company Limited	Lot 19 DP 2688	Dalcam Company Limited	Lot 18 DP 2688	Dalcam Company Limited	No comments
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4	The maximum daily discharge of treated wastewater to the land treatment area shall not exceed 3,000 m3/ day.																																											
5	The maximum daily discharge of treated organic solids to the land treatment area shall not be restricted by volume, but by nitrogen loading, which is limited in Condition 19.	<p><u>The consent holder shall ensure the maximum daily discharge of treated organic solids is undertaken in a manner that complies with the nitrogen and phosphorus loading limits specified in condition 11.</u></p> <p><u>Advise Note: the N and P limits only apply to those areas which are not harvested or cropped.</u></p> <p>Comment – Minor changes to refer to conditions that specify nutrient loading limits</p>																																										
	General Requirements																																											
6	The Permit Holder must undertake the activities in general accordance with the information supplied in the consent application, the Assessment of Environmental Effects dated 31 March 2015 including all concepts, parameters, drawings, activity specifications, proposed mitigation measures, methods concerning how the activity will be conducted and the scale, character and intensity of																																											

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	<p>effects. Where the information is inconsistent with the requirements of specific consent conditions, the conditions prevail.</p> <p>Advice Note: Any change from the location, design concepts and parameters, implementation and / or operation may require a new resource consent or a change of consent conditions pursuant to section 127 of the Resource Management Act 1991.</p>	
7	<p>The Permit Holder must ensure at all times that the discharge and management of treated wastewater is prioritised in the following order:</p> <p>a) Irrigation to land; b) Storage and buffering; and c) Discharge to the Oroua River in accordance with Discharge Permit Number.</p> <p>Advice note: This condition is to show the intent of the Permit Holder to discharge as much as practically possible to land. It reflects the desire of the community and undertaking of the Permit Holder to maximise land application.</p>	<p><u>Comment – is this condition better to be on the general conditions?</u></p>
	Maximum Application Rates and Application Restrictions	
8	<p>The Permit Holder must ensure the application rate of treated wastewater onto land or into land does not exceed:</p> <p>a) Travelling boom irrigator: i. 37 mm/h; and ii. 34 mm in any one application. b) Sprinkler irrigators: iii. 4 mm/h; and iv. 12 mm in any one application.</p> <p>Advice Note: A hydraulic limit for solids is not appropriate as direct leaching and run off will not occur. Setting an application depth is problematic due to the potential variability of the material and the application method. Consequently limiting the application of material through a nitrogen and phosphorus limit, as proposed in Condition 11, has been adopted.</p>	
9	<p>The Permit Holder must ensure that the rate, frequency and method of the discharge of wastewater onto and into land does not result in:</p> <p>a) any noticeable contamination of groundwater (when measured between the upstream and downstream monitoring sites as required by Condition 17); b) run-off to surface water or subsurface drains; or c) any ponding on the soil surface (defined as a depth of wastewater greater than 25 mm [covering a continuous area exceeding 10 m2 or a combined area greater than 20 m2] during and following irrigation, or any treated wastewater on the soil surface five hours after irrigation has occurred).</p> <p>Advice Note: To establish if there is noticeable contamination of groundwater as a result of treated wastewater being discharged to the site, the results of a minimum of three groundwater monitoring events will be analysed.</p>	<p>The Consent Holder must ensure that the rate, frequency and method of the discharge of <u>treated</u> wastewater onto and into land does not result in:</p> <p>a) any noticeable contamination of groundwater (when measured between the upstream and downstream monitoring sites as required by Condition 17), noticeable contamination is defined as a change greater than xxxx; b) run-off to surface water or subsurface drains; or c) any ponding on the soil surface (defined as a depth of wastewater greater than 25 mm [covering a continuous area exceeding 10 m2 or a combined area greater than 20 m2] during and following irrigation, or any treated wastewater on the soil surface five hours after irrigation has occurred).</p> <p>Advice Note: To establish if there is noticeable contamination of groundwater as a result of treated wastewater being discharged to the site, the results of a minimum of three groundwater monitoring events will be analysed.</p> <p>Comment – need to establish an appropriate parameter to define ‘noticeable’, noted that there are currently background or up gradient effects. Invite the applicant to suggest a suitable measureable standard</p>
10	<p>Prior to the application of treated wastewater to land, the Permit Holder must measure soil moisture levels in representative areas of the land treatment area to ensure that treated wastewater is only applied to land when there is a soil deficit of 2 mm or greater prior to application.</p>	<p>Prior to the application of treated wastewater to land, the Consent Holder must measure soil moisture levels <u>in representative areas of the land treatment area to ensure that treated wastewater is only applied to land so that at the completion of irrigation a soil water deficient of 5mm remains on LMU 1 to 3 and at least 1mm remains on LMU 4.</u></p> <p>Comment – Changes in wording to better reflect management criteria stated in the application</p>
11	<p>The Permit Holder must ensure that the nutrient loading resulting from the discharge of treated wastewater and solids onto and into land, does not exceed the following criteria when applied to pasture that is not harvested or areas that are not cropped:</p>	<p>No comment other than for consistency refer to treated organic solids</p>

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		LMU 1	LMU 2	LMU 3	
	Max N Load (/year)	250 kg N/ha	250 kg N/ha	250 kg N/ha	
	Max P Load (/year)	50 kg P/ha	50 kg P/ha	50 kg P/ha	
	Advice Note: LMU means Land Management Unit, which are defined in the Assessment of Environmental Effects, dated 31 March 2015 and shown on Plan ? attached.				
12	Should the nutrient loading rates in Condition 11 be exceeded, the equivalent additional mass of nutrient loading over and above that in Condition 11 shall be removed from the area to which it is applied in harvested material. Advice Note: Nutrient loading over and above the grazed maximum requires harvesting as hay or silage, or some form of crop removal. The efficacy of the additional removal shall be demonstrated by recording the mass of herbage or crop removed and its nutrient concentration. The details of this harvesting regime shall be detailed in the Operation and Management Plan as required by Condition 3 of the General Conditions.				
13	Meeting the requirements of Conditions 11 and 12 shall be determined by calculating the nutrient loading to each block receiving treated wastewater. The nutrient loading will be based on the results of monitoring required in accordance with Condition 13 of the General Conditions (treated wastewater monitoring) and a record of the volume of treated wastewater or solids applied to each paddock.				Comment – have added testing in to Condition 13 of the general conditions otherwise was nothing to measure for the organic solids
14	The permit holder must ensure that treated wastewater is not discharged to land closer than: a) 20 m from any watercourse, whether flowing continuously or intermittently, including any open drain; b) 20 m from any property boundary where there are no buildings; or c) 200 m from any dwelling house, milking shed or other building on any property bordering the land treatment area when that building is directly downwind Advice Note: this condition does not apply to dwellings and buildings within the application site.				The permit holder must ensure that treated wastewater <u>or treated organic solids are-is</u> not discharged to land closer than: a) 20 m from any watercourse, whether flowing continuously or intermittently, including any open drain; b) 20 m from any property boundary where there are no buildings; or c) 200 m from any dwelling house, milking shed or other building on any property bordering the land treatment area when that building is directly downwind Advice Note: this condition does not apply to dwellings and buildings within the application site. <u>Comment – buffer distances need to refer to organic solids as well</u>
15	The Permit Holder must not discharge treated wastewater to land: a) Within 48 hours after the application of fertiliser; b) Within 24 hours after any harvesting activity; c) Within 48 hours prior to any harvesting activity; or d) When 50 mm or more rainfall has occurred in the previous 24 hour period as recorded at the WWTP.				Comment – include treated organic solids
	Soil Sampling				
16	The Permit Holder must take annual composite soil samples from any Land Management Area that has received treated wastewater and solids within the previous 12 month period (starting 1 October and ending 30 September) for the duration of this Discharge Permit. A minimum of ten 75 mm depth composite samples must be obtained, and must be analysed for the following: a) pH; b) Exchangeable Sodium (Na); c) Exchangeable Sodium percentage (Na); d) Exchangeable Potassium (K); e) Exchangeable Magnesium (Mg); f) Exchangeable Calcium (Ca); g) Phosphorus (Olsen); h) Sulphate-S; i) Total Nitrogen; and j) Cation Exchange Capacity.				The Consent Holder must take annual composite soil samples from any Land Management Unit that has received treated wastewater and solids within the previous 12 month period (starting 1 October and ending 30 September) for the duration of this Discharge Permit. Samples has be taken from a minimum of 3 paddocks in each Land Management Area. <u>A minimum of ten 75 mm depth composite samples must be obtained from each paddock</u> , and must be analysed for the following: a) pH; b) Exchangeable Sodium (Na); c) Exchangeable Sodium percentage (Na); d) Exchangeable Potassium (K); e) Exchangeable Magnesium (Mg); f) Exchangeable Calcium (Ca); g) Phosphorus (Olsen); h) Sulphate-S; i) Total Nitrogen; and j) Cation Exchange Capacity.

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		<p>16a The Consent Holder must take soil samples from all Land Management Units in 2022 and 2027, a minimum of 3 paddocks in each Land Management shall be sampled. A minimum of ten composite samples collected at a 200-300mm depth must be collected from each paddock and analysed for the following:</p> <ul style="list-style-type: none">a) pH;b) Exchangeable Sodium (Na);c) Exchangeable Sodium percentage (Na);d) Exchangeable Potassium (K);e) Exchangeable Magnesium (Mg);f) Exchangeable Calcium (Ca);g) Phosphorus (Olsen);h) Sulphate-S;i) Total Nitrogen; andj) Cation Exchange Capacity. <p>Comment: Need to ensure sufficient composites are sampled per paddock to ensure sampling is representative. Sampling further down the profile at longer intervals gives assurance as to potential effects further down the profile.</p>
	Groundwater Monitoring	
17	Groundwater quality and level shall be monitored at bores identified on Plan ? attached to and forming part of these conditions.	<p>The Consent Holder shall monitor groundwater quality measured in seven locations. Monitoring shall be undertaken from three existing monitoring bores (325413, 325416B, 325016 and 325411) and three new monitoring bores establish in accordance with Condition xx below.</p> <p>Comment – additional monitoring bores are recommended based on advice of Mr Thomas to better capture potential effects.</p>
		<p>17a</p> <p>Within six months of the date of commencement of this consent, the consent holder shall install three new groundwater monitoring wells on the site at or as near as practicable at the locations specified in Appendix 1 and to the following specifications:</p> <ul style="list-style-type: none">a) The monitoring wells shall have a diameter of not less than 50/100 millimetres / of a sufficient size to enable samples to be taken and shall be installed at the locations identified in xxxx plan.b) The wells shall be drilled to a depth of up to 10 metres below the summer low ground level and/ shall be screened across the full depth of the water table/aquifer, with a screen length of no more than xxx metres.c) The borehole casing shall be constructed of polyvinyl chloride (PVC) or a similar inert material and shall be capped and secured to prevent entry of surface water.d) A concrete pad at least 0.3 metres radius shall be constructed around the bore head of the monitoring well at ground level, to prevent leakage around the casing. The concrete pad shall slope away from the bore.e) The wells shall be installed by a suitable qualified person(s) and constructed in accordance with the New Zealand Standard for Drilling Rock and Soil NZS 4411:2001. <p>Advice Note: Any new bore requires a controlled activity land use consent under Rule 16-14 of the One Plan (2014)</p> <p>17b. The Consent Holder shall notify the Manawatu-Wanganui Regional Council's Consents Monitoring Team of the installation, location and depth of any monitoring well's installed under Condition x17a.</p> <p>Advice Note: The Consents Monitoring Team can be notified via 0508 800 800 or compliance.shared@horizons.gov.nz</p>

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18	<p>The Permit Holder must take quarterly groundwater samples in the months of January, April, July, and October in accordance with Condition 17 above and the samples must be analysed for the following:</p> <p>a) Total Phosphorus (TP); b) Dissolved Reactive Phosphorus (DRP); c) Total Nitrogen (TN); d) Nitrate Nitrogen (NO3-N) e) Ammoniacal-Nitrogen (NH4-N) f) Chloride (Cl-); g) Escherischia coli; and h) Static water level.</p>	<p>The Consent Holder shall take samples monthly from all bores identified in Condition 17 until 1 July 2019 and thereafter in the months of January, April, July and October for the remaining duration of the permit. Samples shall be collected in accordance with the MfE Groundwater sampling protocols (2006) or updated protocols document..</p> <p>18a The Consent Holder shall measure and record the static water level in the bore prior to purging and sampling. Samples collected under Condition 12 shall be analyses for the following parameters:</p> <p>a. Temperature b. pH c. electrical conductivity d. chloride e. nitrate-nitrogen f. ammonia-nitrogen g. nitrite-nitrogen h. dissolved reactive phosphorus i. E.Coli</p> <p>18b Results of monitoring collected in accordance with Condition 18a shall be transferred within ten working days of their receipt to the Manawatu-Wanganui Regional Council in a format compatible with the Manawatu-Wanganui Regional Council systems.</p> <p>Comment – more detailed sample collection is recommended initially, this will assist with the assessment of effects from the discharge to land activity as well as help identify likelihood of groundwater plumes containing elevated nutrient concentration entering the Oroua River. Three years should be sufficient to establish a pattern and then sampling frequency reduces.</p>
	Surface Water Monitoring	
	No Condition is proposed to address this.	
	Irrigation and Harvest Records	
19	<p>The Permit Holder must maintain a record of all irrigation activities within the land treatment area. This record must include but not be limited to:</p> <p>a) The date, time, location and volume of each irrigation application; b) The date, time, location, volume and nitrogen loading of any nitrogenous and phosphorus material applied; and c) The date and time of pipeline flushes when they occur.</p>	<p>The Consent Holder must maintain a record of all irrigation activities authorised by this resource consent that occur within the land treatment area. This record must include but not be limited to:</p> <p>a) The date, time, location and volume of each irrigation and solids application; b) The date, time, location, volume and nitrogen loading of any nitrogenous and phosphorus material applied; and c) The date and time of pipeline flushes when they occur.</p> <p><u>Records shall be reported in the annual report as required by Condition 20 of the general conditions</u></p>
20	<p>The Permit Holder must maintain a record of all harvest and stock grazing events that occur within the land treatment area. This record must include the date, time, stock numbers, number of bales and mass of harvested material.</p>	<p>The Consent Holder must maintain a record of all harvest and stock grazing events that occur within the land treatment area. This record must include the date, time, stock numbers, number of bales and mass of harvested material.</p> <p><u>Records shall be reported in the annual report as required by Condition 20 of the general conditions</u></p>
	Review	
21	<p>The Manawatu-Whanganui Regional Council may, under Section 128 of the Act initiate a review of these conditions every 5 years in the month of July, commencing in July 2018, for the duration of this permit. The review must be for the purposes of avoiding, remedying or mitigating any adverse effects on the environment, which may arise from the exercise of this Discharge Permit.</p> <p>The review must allow for the consideration of the following matters:</p> <p>a) The deletion or amendment of these Conditions; b) Evaluation and modification of these Conditions to ensure that discharges to land are optimised over discharges to the Oroua River under Discharge Permit Number ?; c) The modification of the monitoring program required by these Conditions;</p>	<p>The Manawatu-Whanganui Regional Council may, under Section 128 of the Act initiate a review of these conditions annually in the month of July, commencing in July 2019, for the duration of this permit. The review must be for the purposes of avoiding, remedying or mitigating any adverse effects on the environment, which may arise from the exercise of this Discharge Permit.</p> <p>The review must allow for the consideration of the following matters:</p> <p>a) The deletion or amendment of these Conditions; b) Evaluation and modification of these Conditions to ensure that discharges to land are optimised over discharges to the Oroua River under Discharge Permit Number ?;</p>

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	<div><div>d) The amendment or addition of new Conditions as necessary to avoid, remedy or mitigate any adverse effects on the environment, including but not limited to conditions to mitigate adverse effects attributed to any breach of any conditions;</div><div>e) The adoption of Best Practicable Option to prevent or minimise adverse effects from the exercise of this Discharge Permit.</div></div>	<div><div>c) The modification of the monitoring program required by these Conditions;</div><div>d) The amendment or addition of new Conditions as necessary to avoid, remedy or mitigate any adverse effects on the environment, including but not limited to conditions to mitigate adverse effects attributed to any breach of any conditions;</div></div> <div>The adoption of Best Practicable Option to prevent or minimise adverse effects from the exercise of this Discharge Permit.</div> <div>Comment – Suggest annual reviews at this stage, so can consider findings of the various reports that are required and refinement of operation system once more data is collected.</div>

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