From:	Alica Brunke on behalf of Alex Booker	
To:	Plan Hearings	
Subject:	Plan Change 7 - Templeton Pegasus Ltd - evidence	
Date:	Friday, 17 July 2020 2:11:33 pm	
Attachments:	ALToituCarbonZero_480px1.png	
	Statement of Evidence - Andrew Webster (Templeton Pegasus Ltd).d.pdf	

Hi Tavisha

Please find attached for filing on behalf of Templeton Pegasus Limited:

Statement of Evidence - Andrew Webster (company representative)

Attachments to Mr Webster's evidence can be found in the Share File link below.

Share File Link: https://files.al.nz/public/folder/ltxz5Mg2M0K0xn11W2_XKw/Statement%20of%20evidence%20of%20Andrew%20Webster%20for%20Templeton%20Pegasus%20Limited%20with%20attachments Password: AndrewW1

Regards Alex

Alex Booker Senior Associate

 Stelliof resource

 Anderson Lloyd

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Anderson Lloyd is committed to operating sustainably and is proud to be Toltû carbonzero certified.

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RESOURCE CONSENT CRC210133

Pursuant to Section 104 of the Resource Management Act 1991

The Canterbury Regional Council (known as Environment Canterbury)

GRANTS TO:	Templeton Pegasus Limited
A WATER PERMIT (S14):	To take and use groundwater.
COMMENCEMENT DATE:	28 Aug 2006
EXPIRY DATE:	25 Aug 2041
LOCATION:	State Highway 1, WOODEND

SUBJECT TO THE FOLLOWING CONDITIONS:

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- 1 The work shall be carried out in general accordance with the activity details set out in the application and associated assessment of effects, dated December 2005, and lodged with the consent authority.
- 2 The littoral zone of the lake shall be lined with shingle or other similar material to prevent erosion of the lake shore and resuspension of sediment. This lining shall take place as soon as practicable after the lake is fully excavated. The detail of how the lake is to be lined, and the levels at which it will be lined are to be determined in the Lake Management Plan.
- 3 The take of groundwater shall not exceed 750 litres per second.

Advice Note: The take of groundwater is not for abstractive purposes. The maximum take of groundwater is a nominal figure calculated on a one percent AEP storm event, which cannot be determined accurately. The expected average take will be about 10-20 litres per second. It is expected this condition could be varied once the actual take is known to provide for an average as well as maximum rate of take.

- 4 The lapsing provisions of Section 125 of the Resource Management Act 1991 will apply on expiry of ten years from the date of commencement of this consent 28 August 2016.
 - a. Visual inspection of Lake aesthetics shall be undertaken on a two-monthly basis, and shall include inspection for natural colour, presence of toxic or nuisance algal or aquatic plant growth, conspicuous oil or grease films, scums or foams, or floatable or suspended materials excluding those of natural origin.
 - b. The results of the inspections, including the name of the person undertaking the inspection, the date and time of sampling, and any interpretation required of the results shall be provided to Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager, within 20 working days of the inspection being carried out.



- 6 Monthly sampling of ambient lake and Eastern Conservation Management Area water quality shall be undertaken for the first five years that these water bodies are in existence. Water samples will be collected from two locations from the Lake, two locations within the Eastern Conservation Management Area and one from the outlet from the Eastern Conservation Management Area. The location of these sampling points shall be identified in the Lake Management Plan and agreed in writing with the CRC prior to sampling commencing. Water quality shall be monitored for E coli, concentration of dissolved oxygen, water temperature, natural pH, visual clarity, copper, zinc, total suspended solids, turbidity, total nitrate, total phosphate and dissolved reactive phosphate.
- 7 Within five years of the lake being in existence the consent holder shall prepare a report in conjunction with Waimakariri District Council and submit it to Canterbury Regional Council Attn RMA Compliance and Enforcement Manager which will address the following matters:
 - a. Water quality results as monitored in accordance with Condition (6) above.
 - b. The likely range of expected and recommended water quality parameters in the future based on such monitoring results.
 - c. Where necessary and appropriate to achieve Lake Management Plan and Eastern Conservation Management Area Management Plan objectives, an assessment of mitigation options to improve water quality in the lake and/or quality of the discharge from the Eastern Conservation Management Area including life cycle costs, benefits and risks of such options.
 - d. Where necessary and appropriate recommendations as to any restrictions required for activities in, or uses of, the lake.
- 8 Notwithstanding Condition (7) the quality of the water in the lake shall in general meet the following criteria:
 - a. It is suitable for the activities and uses for which the lake and its water are proposed in the Lake Management Plan to be used for; and
 - b. It is generally suitable for secondary contact recreation; and
 - c. It does not result in persistent seasonal stratification leading to oxygen depletion in the lake; and
 - d. It does not result in toxic or nuisance algal blooms.
- 9 The low flow outlet of the lake shall be designed in such a way that during periods of normal dry weather flow, the lake water level is between 1.1 metre and 1.5 metre Reduced Level (RL). In the event that future natural groundwater levels are such that inflows are insufficient to maintain a surface outflow at 1.1metre RL then the lake water level may be allowed to fall below that level until such time as groundwater levels and inflows recover.
- 10 The outlets of the lake and the Eastern Conservation Management Area shall be designed to provide for the attenuation requirements of peak flood flow rates from Pegasus township. Above the flood peak flow rate attenuation level, provision shall be made for passage of flood water from the interdune area into the Lake to provide flood storage for extreme events from areas external to Pegasus township.



- 11 A Lake Management Plan and Eastern Conservation Area Management Plan shall be developed for the site in conjunction with the Waimakariri District Council and submitted to the Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager, prior to commencing the construction of the earthworks for the lake for approval. This Plan shall included performance criteria and monitoring requirements for the lake and Eastern Conservation Management Area and shall show compliance with conditions (5)-(9) of this consent. A copy shall also be held by the consent holder along with a copy of the consent. Where necessary, this Plan may be reviewed, updated and resubmitted to the Canterbury Regional Council. Where substantive changes result, the Plan shall be resubmitted to the Canterbury Regional Council for approval. These plans shall include lake and Eastern Conservation Management Area performance criteria and monitoring requirements.
- 12 The consent holder shall, by 31 March every year for the duration of these consents, prepare an annual report to the Canterbury Regional Council covering activities carried out under consents CRC062168, CRC062169, CRC062170, CRC062173, CRC062174, CRC062175, CRC062177, CRC062178, CRC062179, CRC062181, CRC062183 & CRC062184 in the previous calendar year. This report shall include, but not be limited to:
 - a. An outline of any major physical works carried out in the previous calendar year;
 - b. Compliance with the Archeological Sites Protocol describe in conditions (17) (27) inclusive for consents CRC062168, CRC062169, CRC062170, CRC062173, CRC062174, CRC062175 and R055800;
 - c. Any maintenance registers;
 - d. Any remedial works carried out, including the number of infiltration swales remediated;
 - e. A register of any complaints received, and the actions undertaken to resolve those complaints;
 - f. Copies of any periodically updated management plans prepared pursuant to these consents;
 - g. A summary of all visual inspections of lake aesthetics;
 - h. A summary of all monitoring undertaken pursuant to these consents, with a discussion of any unexpected or unusual results. Detailed results of monitoring shall be provided in appendices; and
 - i. In the event of a storm with a return period of 10 percent Annual Exceedance Probability or greater, an evaluation of the performance of the stormwater treatment from the business zone, the effects on levels of and water quality in the lake, the Eastern Conservation Management Area and the inter dune drain, and any effects of the discharges on flooding of properties downstream.
- 13 Pursuant to Section 128 of the Resource Management Act 1991, the Canterbury Regional Council may review the conditions of all of the above described consents by serving notice on any of the last five working days of January each year, for any of the following purposes:
 - a. To deal with any adverse effect on the environment which may arise from the exercise of the consent and which it is appropriate to deal with at a later stage, or



- b. To require the consent holder to adopt the best practicable option to remove or reduce any adverse effect on the environment.
- 14 The contractor's environmental management plan shall be updated at least annually for the duration of construction on the site. Updates of this management plan shall be provided to the Canterbury Regional Council: Attn. RMA Compliance and Enforcement Manager. The first of these periodic reviews shall be no later than 31 March 2008.
- 15 The management plans for stormwater management, the lake and the Eastern Conservation Management Area shall be updated at least once every three years for the duration of the relevant consents. Updates of these management plans shall be provided to the Canterbury Regional Council: Attn. RMA Compliance and Enforcement Manager. The first of these periodic reviews shall be no later than 31 March 2010.
- 16 Any samples taken in accordance with conditions in these consents shall be analysed using the most appropriate scientifically recognised and current method by a laboratory that is certified for that method of analysis by an accreditation authority such as International Accreditation New Zealand (IANZ).

Issued at Christchurch on 8 July 2020

Canterbury Regional Council



RESOURCE CONSENT CRC210113

Pursuant to Section 104 of the Resource Management Act 1991

The Canterbury Regional Council (known as Environment Canterbury)

gasus Limited
vert surface water.
1, WOODEND

SUBJECT TO THE FOLLOWING CONDITIONS:

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- 1 The work shall be carried out in general accordance with the activity details set out in the application and associated assessment of effects, dated December 2005, and lodged with the consent authority.
- 2 The littoral zone of the lake shall be lined with shingle or other similar material to prevent erosion of the lake shore and resuspension of sediment. This lining shall take place as soon as practicable after the lake is fully excavated. The detail of how the lake is to be lined, and the levels at which it will be lined are to be determined in the Lake Management Plan.

The take of groundwater shall not exceed 750 litres per second. Advice Note: The take of groundwater is not for abstractive purposes. The maximum take of groundwater is a nominal figure calculated on a one percent AEP storm event, which cannot be determined accurately. The expected average take will be about 10-20 litres per second. It is expected this condition could be varied once the actual take is known to provide for an average as well as maximum rate of take.

- 4 The lapsing provisions of Section 125 of the Resource Management Act 1991 will apply on expiry of ten years from the date of commencement of this consent as being 28 August 2016.
 - a. Visual inspection of Lake aesthetics shall be undertaken on a two-monthly basis, and shall include inspection for natural colour, presence of toxic or nuisance algal or aquatic plant growth, conspicuous oil or grease films, scums or foams, or floatable or suspended materials excluding those of natural origin.
 - b. The results of the inspections, including the name of the person undertaking the inspection, the date and time of sampling, and any interpretation required of the results shall be provided to Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager, within 20 working days of the inspection being carried out.



- 6 Monthly sampling of ambient lake and Eastern Conservation Management Area water quality shall be undertaken for the first five years that these water bodies are in existence. Water samples will be collected from two locations from the Lake, two locations within the Eastern Conservation Management Area and one from the outlet from the Eastern Conservation Management Area. The location of these sampling points shall be identified in the Lake Management Plan and agreed in writing with the CRC prior to sampling commencing. Water quality shall be monitored for E coli, concentration of dissolved oxygen, water temperature, natural pH, visual clarity, copper, zinc, total suspended solids, turbidity, total nitrate, total phosphate and dissolved reactive phosphate.
- 7 Within five years of the lake being in existence the consent holder shall prepare a report in conjunction with Waimakariri District Council and submit it to Canterbury Regional Council Attn RMA Compliance and Enforcement Manager which will address the following matters:
 - a. Water quality results as monitored in accordance with Condition (6) above.
 - b. The likely range of expected and recommended water quality parameters in the future based on such monitoring results.
 - c. Where necessary and appropriate to achieve Lake Management Plan and Eastern Conservation Management Area Management Plan objectives, an assessment of mitigation options to improve water quality in the lake and/or quality of the discharge from the Eastern Conservation Management Area including life cycle costs, benefits and risks of such options.
 - d. Where necessary and appropriate recommendations as to any restrictions required for activities in, or uses of, the lake.
- 8 Notwithstanding Condition (7) the quality of the water in the lake shall in general meet the following criteria:
 - a. It is suitable for the activities and uses for which the lake and its water are proposed in the Lake Management Plan to be used for; and
 - b. It is generally suitable for secondary contact recreation; and
 - c. It does not result in persistent seasonal stratification leading to oxygen depletion in the lake; and
 - d. It does not result in toxic or nuisance algal blooms.
- 9 The low flow outlet of the lake shall be designed in such a way that during periods of normal dry weather flow, the lake water level is between 1.1 metre and 1.5 metre Reduced Level (RL). In the event that future natural groundwater levels are such that inflows are insufficient to maintain a surface outflow at 1.1metre RL then the lake water level may be allowed to fall below that level until such time as groundwater levels and inflows recover.
- 10 The outlets of the lake and the Eastern Conservation Management Area shall be designed to provide for the attenuation requirements of peak flood flow rates from Pegasus township. Above the flood peak flow rate attenuation level, provision shall be made for passage of flood water from the interdune area into the Lake to provide flood storage for extreme events from areas external to Pegasus township.



- 11 A Lake Management Plan and Eastern Conservation Area Management Plan shall be developed for the site in conjunction with the Waimakariri District Council and submitted to the Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager, prior to commencing the construction of the earthworks for the lake for approval. This Plan shall included performance criteria and monitoring requirements for the lake and Eastern Conservation Management Area and shall show compliance with conditions (5)-(9) of this consent. A copy shall also be held by the consent holder along with a copy of the consent. Where necessary, this Plan may be reviewed, updated and resubmitted to the Canterbury Regional Council. Where substantive changes result, the Plan shall be resubmitted to the Canterbury Regional Council for approval. These plans shall include lake and Eastern Conservation Management Area performance criteria and monitoring requirements.
- 12 The consent holder shall, by 31 March every year for the duration of these consents, prepare an annual report to the Canterbury Regional Council covering activities carried out under consents CRC062168, CRC062169, CRC062170, CRC062173, CRC062174, CRC062175, CRC062177, CRC062178, CRC062179, CRC062181, CRC062183 & CRC062184 in the previous calendar year. This report shall include, but not be limited to:
 - a. An outline of any major physical works carried out in the previous calendar year;
 - b. Compliance with the Archeological Sites Protocol describe in conditions (17) (27) inclusive for consents CRC062168, CRC062169, CRC062170, CRC062173, CRC062174, CRC062175 and R055800;
 - c. Any maintenance registers;
 - d. Any remedial works carried out, including the number of infiltration swales remediated;
 - e. A register of any complaints received, and the actions undertaken to resolve those complaints;
 - f. Copies of any periodically updated management plans prepared pursuant to these consents;
 - g. A summary of all visual inspections of lake aesthetics;
 - h. A summary of all monitoring undertaken pursuant to these consents, with a discussion of any unexpected or unusual results. Detailed results of monitoring shall be provided in appendices; and
 - i. In the event of a storm with a return period of 10 percent Annual Exceedance Probability or greater, an evaluation of the performance of the stormwater treatment from the business zone, the effects on levels of and water quality in the lake, the Eastern Conservation Management Area and the inter dune drain, and any effects of the discharges on flooding of properties downstream.



- 13 Pursuant to Section 128 of the Resource Management Act 1991, the Canterbury Regional Council may review the conditions of all of the above described consents by serving notice on any of the last five working days of January each year, for any of the following purposes:
 - a. To deal with any adverse effect on the environment which may arise from the exercise of the consent and which it is appropriate to deal with at a later stage, or
 - b. To require the consent holder to adopt the best practicable option to remove or reduce any adverse effect on the environment.
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Issued at Christchurch on 8 July 2020

Canterbury Regional Council



RESOURCE CONSENT CRC210131

Pursuant to Section 104 of the Resource Management Act 1991

The Canterbury Regional Council (known as Environment Canterbury)

Templeton Pegasus Limited
To dam water.
28 Aug 2006
Unlimited Duration
State Highway 1, WOODEND

SUBJECT TO THE FOLLOWING CONDITIONS:

5

- 1 The work shall be carried out in general accordance with the activity details set out in the application and associated assessment of effects, dated December 2005, and lodged with the consent authority.
- 2 The littoral zone of the lake shall be lined with shingle or other similar material to prevent erosion of the lake shore and resuspension of sediment. This lining shall take place as soon as practicable after the lake is fully excavated. The detail of how the lake is to be lined, and the levels at which it will be lined are to be determined in the Lake Management Plan.

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Issued at Christchurch on 8 July 2020

Canterbury Regional Council

