

APPENDIX A

CONSENT AUTHORITY:	South Taranaki District Council
CONSENT HOLDER:	Tararua Wind Power Limited
CONSENT TYPE:	Land Use Consent
ACTIVITY AUTHORISED:	The construction, operation and maintenance of the Waverley Wind Farm
SITE LOCATION:	Peat Road and Dryden Road, Waverley
CONSENT DURATION:	Unlimited

GENERAL

- 1 The construction, operation and maintenance of the Waverley Wind Farm shall be undertaken in general accordance with the information provided in "*Waverley Wind Farm – Resource Consent Applications and Assessment of Environmental Effects*" dated 14 April 2016 and any other documentation relevant to the resource consent applications, including responses to requests for further information from the South Taranaki District Council in accordance with Section 92 of the Resource Management Act 1991 (all held on South Taranaki District Council file RML16030). In the event of any conflict or discrepancy between these documents and the conditions of this resource consent, the conditions shall be determinative.
- 2 Pursuant to Section 125(1) of the Resource Management Act 1991, this resource consent shall lapse if not given effect to within 10 years of the commencement of this resource consent.
- 3 Pursuant to Section 134(1) of the Resource Management Act 1991, this resource consent may only be exercised by the consent holder, its successor, or any person acting under the prior written approval of the consent holder.
- 4 The consent holder shall ensure that all contractors engaged to undertake activities authorised by this resource consent are made aware of the conditions of this resource consent relevant to their work area and the measures required for compliance with the conditions.

- 5 The consent holder shall notify the Group Manager - Environmental Services, South Taranaki District Council as to the commencement date of construction works authorised as part of this resource consent, at least 15 working days before such works commence.
- 6 The consent holder shall at all times construct, operate and maintain the Waverley Wind Farm in accordance with all management plans submitted to, and certified by, the Group Manager - Environmental Services, South Taranaki District Council as part of the conditions of this resource consent.

WIND FARM AND TURBINE CHARACTERISTICS

- 7 The maximum number of wind turbines in the Waverley Wind Farm shall not exceed 48.
- 8 The maximum wind turbine height (to the vertically extended blade tip) shall be 160 metres above finished ground level.
- 8A. The minimum height of the vertically extended blade tip of any wind turbine shall not be less than 30 metres above finished ground level.
- 9 All wind turbines utilised within the Waverley Wind Farm (including any replacement wind turbines that are installed during the life of the wind farm) shall be of a similar size and type and have three blades. For the avoidance of doubt the wind turbines shall not be stall regulated.
- 10 Lattice style pylon towers shall not be used for the wind turbine structures.
- 11 All wind turbines and turbine blades used within the Waverley Wind Farm shall be finished with the same industry standard low reflectivity finishes and in an off-white colour.
- 12 Each wind turbine may include one externally housed transformer unit located adjacent to the base of the turbine. The maximum height of any externally housed transformer unit shall be 2.5 metres above finished ground level and the maximum building footprint shall not exceed 25 m².
- 13 All wind turbines, turbine platforms, hard stand areas and externally housed transformer units authorised as part of this resource consent shall be located within the project site boundaries as defined in Figure 1 of Appendix A to the Landscape and Visual Assessment by Isthmus Group appended to "*Waverley Wind Farm – Resource Consent Applications and Assessment of Environmental*

Effects" dated 14 April 2016. However, no wind turbines, turbine platforms, hard stand areas or externally housed transformer units shall be located within the Environmental Buffer Zone as defined in the figure by Isthmus Group dated April 2017.

- 14 Wind turbines within the project site boundaries as defined in Figure 1 of Appendix A to the Landscape and Visual Assessment by Isthmus Group appended to "*Waverley Wind Farm – Resource Consent Applications and Assessment of Environmental Effects*" dated 14 April 2016 shall be spaced so that an ellipse drawn around each wind turbine and orientated to the prevailing wind at 315 degrees from due north, with the long axis being four times the diameter of the rotor and the narrow axis being 2.5 times that diameter, does not overlap the ellipse drawn around any other wind turbine identified in the final turbine layout for the Waverley Wind Farm required in accordance with Condition 26.
- 15 No wind turbines, turbine platforms or externally housed transformer units (but excluding hard stand areas) shall be established on any road reserve within the project site boundaries as defined in Figure 1 of Appendix A to the Landscape and Visual Assessment by Isthmus Group appended to "*Waverley Wind Farm – Resource Consent Applications and Assessment of Environmental Effects*" dated 14 April 2016, except where the approval of the Group Manager – Corporate Services, South Taranaki District Council has been provided in writing.
- 16 All wind turbines shall be set back at least one blade length from the project site boundaries and Environmental Buffer Zone, as defined in Figure 1 of Appendix A to the Landscape and Visual Assessment by Isthmus Group appended to "*Waverley Wind Farm – Resource Consent Applications and Assessment of Environmental Effects*" dated 14 April 2016 and the figure by Isthmus Group dated April 2017, so that wind turbine blades do not encroach the airspace outside the project site boundaries and the Environmental Buffer Zone.

SUPPORTING INFRASTRUCTURE

- 17 The maximum number of wind monitoring masts in the Waverley Wind Farm shall not exceed 6, including the three wind monitoring masts already erected within the project site boundaries as at the date of granting this resource consent.
- 18 The maximum height of each wind monitoring mast shall be 110 metres above finished ground level or the hub-height of the installed wind turbines, whichever is the greater.

- 19 The maximum height of the concrete batching plant shall be 10 metres above finished ground level and the maximum working area associated with the concrete batching plant shall not exceed 7,500 m². The concrete batching plant shall be decommissioned and removed from the project site within six months of completion of construction works for the Waverley Wind Farm.
- 20 The maximum height of the operations and maintenance building shall be five metres above finished ground level and the maximum building footprint shall not exceed 600 m².
- 21 The maximum height of the electricity substation / switchyard building shall be five metres at finished ground level, with gantry structures and lighting / lightening arrestors not exceeding 22 metres in height. The maximum building footprint of the electricity substation / switchyard, inclusive of car parking, shall not exceed 10,000 m².
- 22 During the construction of the Waverley Wind Farm the maximum width of the internal access road network within the project site boundaries as defined in Figure 1 of Appendix A to the Landscape and Visual Assessment by Isthmus Group appended to "*Waverley Wind Farm – Resource Consent Applications and Assessment of Environmental Effects*" dated 14 April 2016 shall not exceed 10 metres, with an additional one metre shoulder on either side. All internal access roads shall be rehabilitated to a maximum width of five metres, with an additional 0.5 metre shoulder on either side, within 12 months of completion of construction works for the Waverley Wind Farm.

Note: For the purpose of this condition and other conditions relating to the completion of construction works, completion of construction works means the issuance by the consent holder of a construction completion certificate under a construction contract to the wind turbine supplier or similar. A copy of any construction completion certificate should be provided to the Council.

- 23 All supporting infrastructure to the Waverley Wind Farm authorised as part of this resource consent shall be located within the project site boundaries as defined in Figure 1 of Appendix A to the Landscape and Visual Assessment by Isthmus Group appended to "*Waverley Wind Farm – Resource Consent Applications and Assessment of Environmental Effects*" dated 14 April 2016. However, no supporting infrastructure to the Waverley Wind Farm shall be located within the Environmental Buffer Zone as defined in the figure by Isthmus Group dated April 2017.

- 24 Notwithstanding Condition 23 above, culvert crossings (both new and replacement) and associated internal access roads (including underground 33 kV transmission lines and fibre optic cabling) may be constructed, operated and maintained within the Environmental Buffer Zone at the six locations identified in Section 3.6.4 of "*Waverley Wind Farm – Resource Consent Applications and Assessment of Environmental Effects*" dated 14 April 2016.

PLANS

- 25 At least 40 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall provide the Group Manager - Environmental Services, South Taranaki District Council with a set of final design drawings for the Waverley Wind Farm. The final design drawings shall, as a minimum, include:
- (a) The layout and spacing of the wind turbines;
 - (b) The specifications of the wind turbines, turbine platforms, foundations and hard stand areas;
 - (c) The location and specifications of all supporting infrastructure;
 - (d) The layout and pavement composition of the internal access road network;
 - (e) The location of all fill disposal sites; and
 - (f) The location of the Cultural Cautionary Zone.
- 26 Within 40 working days of construction of the Waverley Wind Farm being completed (or after each stage, if the Waverley Wind Farm is constructed in stages), the consent holder shall provide the Group Manager - Environmental Services, South Taranaki District Council, Ngaa Rauru Kaitahi and Te Runanga o Ngati Ruanui Trust with a set of as-built plans for the following:
- (a) All wind turbines, turbine platforms and foundation areas;
 - (b) The internal access road network;
 - (c) All fill disposal sites;
 - (d) All permanent supporting infrastructure site; and
 - (e) Engineering survey plans and sections of major earthworks.

EARTHWORKS AND CONSTRUCTION

- 27 At least 20 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall submit an Earthworks and Construction Management Plan to the Group Manager - Environmental Services, South Taranaki District Council to certify that the plan meets the objectives in Condition 27(a) to (g). The Earthworks and Construction Management Plan shall be prepared by an experienced and appropriately qualified person and shall provide for the following objectives:
- (a) Minimise the volume of earthworks required for the construction of the Waverley Wind Farm;
 - (b) Maximise the effectiveness of erosion and sediment control measures associated with earthworks by minimising sediment generation and sediment laden runoff;
 - (c) Minimise the overall area of disturbance so as to reduce the potential impact on any vegetation, streams, wetlands and potential archaeological features within the project site boundaries;
 - (d) Ensure control and / or mitigation of the adverse effects of any dust emissions;
 - (e) Minimise the effects, and introduction, of weeds;
 - (f) Ensure that fill disposal sites are contoured to reflect the surrounding sand dune landforms; and
 - (g) Rehabilitate and re-vegetate worked areas so that they are returned to pasture or their existing vegetative cover.
- 28 In order to achieve the objectives established in Condition 27 above, the Earthworks and Construction Management Plan shall, as a minimum, address the following matters:
- (a) An explanation of how the Earthworks and Construction Management Plan shall be implemented and the associated roles, responsibilities and contact details for the principal persons responsible for management during the construction period;
 - (b) A clear description of the planned staging of works and the description of earthworks in each stage, including detailed site plans;

- (c) Detailed measures for groundwater control and subsoil drainage;
- (d) Detailed measures for the draining and infilling of ponds;
- (e) Confirmation of the volumes of cut, fill and unsuitable material;
- (f) The location and design of fill disposal sites within the project site boundaries;
- (g) The engineering controls, supervision and certification that will be applied to each stage of development;
- (h) The specific erosion and sediment control measures that will be applied to each stage of earthworks;
- (i) The engineering and management procedures for material sources, use, disposal and treatment, stockpiling, fill placement and disposal of unsuitable materials;
- (j) The specific dust control measures that will be applied to each stage of earthworks and fill disposal sites;
- (k) The measures to contain / manage contaminant runoff and stormwater runoff from the concrete batching plant;
- (l) The measures to ensure that worked areas are rehabilitated and re-vegetated as soon as practicable following earthworks, including:
 - (i) The identification of the vegetation or pasture types and re-vegetation material and techniques to be used for rehabilitation purposes;
 - (ii) The programme and timing of re-vegetation and maintenance activities so that stabilised surface coverage of 80% is achieved;
 - (iii) The retention of surface cover in order to reduce the effects from sediment-laden stormwater runoff;
 - (iv) Contouring of side-throw material and grading out or feathering of any cut / fill batters to merge with the landform contours, where appropriate; and
 - (v) The identification of weed management activities to be undertaken.
- (m) Details on the frequency of inspections and monitoring of all stormwater, dust, erosion and sediment control measures throughout each stage of

construction works, including details of the experienced and appropriately qualified person responsible for inspections and monitoring.

- 29 All earthworks required for the construction of the Waverley Wind Farm shall be undertaken in accordance with the Taranaki Regional Council's "*Guidelines for Earthworks in the Taranaki Region, 2006.*"
- 30 No earthworks or construction works authorised as part of this resource consent shall occur within the Environmental Buffer Zone as defined in the figure by Isthmus Group dated April 2017, except where necessary to give effect to Conditions 24 and 64(d).

NOISE

Construction and Maintenance Noise

- 31 Noise from all construction and maintenance works associated with the Waverley Wind Farm (excluding the operation of the concrete batching plant) shall be measured and assessed in accordance with the requirements and limits of "*NZS6803:1999 Acoustics – Construction Noise.*"
- 32 At least 60 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall submit a Construction Noise Management Plan to the Group Manager - Environmental Services, South Taranaki District Council to certify that the plan meets the objectives in Condition 32(a), (b) and (c). The Construction Noise Management Plan shall be generally in accordance with Section 8 and the relevant annexures of "*NZS6803:1999 Acoustics – Construction Noise*", which detail the relevant types of construction to which the Construction Noise Management Plan is to apply, and the procedures that will be carried out to ensure compliance with the standard. The objectives of the Construction Noise Management Plan shall be to ensure construction works are:
- (a) Designed and implemented to comply with the requirements of "*NZS6803:1999 Acoustics – Construction Noise*", as measured and assessed in accordance with the long term noise limits set out in the standard;
 - (b) Implemented in accordance with the requirements of Section 16 of the Resource Management Act 1991, so as to adopt the best practicable option to ensure the emission of noise from the project site does not exceed a reasonable level; and

- (c) Implemented so that, where practicable, heavy vehicle movements do not occur between the site and State Highway 3 between 10 pm and 7 am (unless necessary for the completion of delivery of project components or over-sized loads to the site).
- 33 In order to achieve the objectives established in Condition 32 above, the Construction Noise Management Plan shall include those matters set out in Section 8 and Annex E of "*NZS 6803:1999 Acoustics – Construction Noise*" and shall, as a minimum, address the following matters:
- (a) The operating hours for the construction works and any time restrictions on the operation of heavy vehicles, machinery and equipment;
 - (b) Details on the machinery and equipment to be utilised during the construction works, and any required mitigation measures associated with the operation of the machinery and equipment;
 - (c) Predictions of sound levels from the machinery and equipment to be utilised during the construction works;
 - (d) Details on the noise monitoring programme to be undertaken during the construction works;
 - (e) The procedure for the reporting of any exceedances of "*NZS6803:1999 Acoustics – Construction Noise*" to the Group Manager - Environmental Services, South Taranaki District Council; and
 - (f) The procedures for the reporting and logging of noise related complaints, including the need for additional monitoring following the receipt of noise complaints.
- 34 The Construction Noise Management Plan shall be prepared by an appropriately qualified and experienced acoustical consultant.
- 34A. Noise generated from concrete batching within the project site boundaries as defined in Figure 1 of Appendix A to the Landscape and Visual Assessment by Isthmus Group appended to "*Waverley Wind Farm – Resource Consent Applications and Assessment of Environmental Effects*" dated 14 April 2016, shall not exceed the following limits when measured at the boundary of any rural zoned site (excluding those properties where the property owner has provided their written approval and where this approval has been provided to the Group Manager - Environmental Services, South Taranaki District Council):

7.00 am to 10.00 pm 55 dBA LAeq (15 mins)

10.00 pm to 7.00 am	45 dBA L _{Aeq} (15 mins)
10.00 pm to 7.00 am	75 dBA L _{max}

Except where otherwise expressly provided for, noise shall be measured in accordance with the requirements of "NZS6801:2008 Measurement of Sound" and assessed in accordance with the requirements of "NZS6802:2008 Assessment of Environmental Sound".

Operational Noise (Non-Wind Turbine Related)

- 35 Noise generated from all other activities within the project site boundaries as defined in Figure 1 of Appendix A to the Landscape and Visual Assessment by Isthmus Group appended to "Waverley Wind Farm – Resource Consent Applications and Assessment of Environmental Effects" dated 14 April 2016, other than wind turbine operation and construction activities, shall not exceed the following limits when measured at, or within, the notional boundary of any dwelling in existence or authorised by a resource consent or a building consent at the date of notice of the decision on the resource consent applications for the Waverley Wind Farm under s114 of the Resource Management Act (excluding those dwellings on properties on which wind turbines are to be located, or where the property owner has provided their written approval and where this approval has been provided to the Group Manager - Environmental Services, South Taranaki District Council):

7.00 am to 10.00 pm	55 dBA L _{Aeq} (15 mins)
10.00 pm to 7.00 am	45 dBA L _{Aeq} (15 mins)
10.00 pm to 7.00 am	75 dBA L _{max}

Except where otherwise expressly provided for, noise shall be measured in accordance with the requirements of "NZS6801:2008 Measurement of Sound" and assessed in accordance with the requirements of "NZS6802:2008 Assessment of Environmental Sound".

Operational Noise (Wind Turbines)

- 36 The wind turbines shall be designed, constructed, operated and maintained so that sound levels from the Waverley Wind Farm comply with the requirements of "NZS6808:2010 Acoustics – Wind Farm Noise." For the avoidance of doubt, this condition shall require the wind turbines to be designed, constructed, operated and maintained so that the Waverley Wind Farm sound levels (L_{A90} (10 min)) shall not exceed the background sound (L_{A90} (10min)) plus 5 dBA or a level of 40 dB (L_{A90} (10 min)), whichever is the greater. The background sound plus 5dBA shall only be used where a background noise survey has been undertaken in

accordance with "NZS6808:2010 Acoustics – Wind Farm Noise" by an appropriately qualified and experienced acoustical consultant and has been submitted in advance for the Group Manager-Environmental Services, South Taranaki District Council for endorsement acting in a technical certification capacity.

Wind farm sound shall be measured and assessed in accordance with "NZS6808:2010 Acoustics – Wind Farm Noise" within the notional boundary of any residential dwelling in existence or authorised by a resource consent or building consent at the date of notice of the decision on the resource consent applications for the Waverley Wind Farm under s114 of the Resource Management Act (excluding dwellings on properties on which wind turbines are to be located, or where the property owner has provided their written approval and where this approval has been provided to the Group Manager – Environmental Services, South Taranaki District Council).

Note: For the avoidance of doubt, and for the purpose of compliance with Condition 36, the "Reference Test Method" shall be adopted for testing whether the Waverley Wind Farm has tonal special audible characteristics, as prescribed as Annex C to ISO 1996-2:2007, in accordance with Appendix B of "NZS6808:2010 Acoustics – Wind Farm Noise."

- 37 Prior to the installation of any wind turbine authorised as part of this resource consent, the consent holder shall submit a Noise Management Plan to the Group Manager - Environmental Services, South Taranaki District Council to certify that the plan meets the objectives in Condition 37(a) and (b). The objectives of the Noise Management Plan shall be to ensure:
- (a) The operation of the Waverley Wind Farm complies with the requirements of Condition 36 of this resource consent; and
 - (b) Operational noise from the Waverly Wind Farm is managed in accordance with the requirements of Section 16 of the Resource Management Act 1991, so as to adopt the best practicable option to ensure the emission of noise from the project site does not exceed a reasonable level.
- 38 In order to achieve the objectives established in Condition 37 above, the Noise Management Plan shall, as a minimum, address the following matters:
- (a) An assessment of background sound levels in accordance with the requirements of "NZS6808:2010 Acoustics – Wind Farm Noise" prior to the commencement of any construction work;
 - (b) Wind turbine selection, having regard to the sound power level predictions

obtained in accordance with Section 6.2 and the special audible characteristics in Clause 5.4.1 of "*NZS6808:2010 Acoustics – Wind Farm Noise*";

- (c) Procedures for ensuring compliance with the noise conditions of this resource consent, including noise compliance testing, methods for addressing non-compliance, designated contact persons, and complaints procedures;
 - (d) Procedures for addressing turbine malfunctions that cause material noise effects beyond typical operational noise;
 - (e) Procedures for ensuring that the best practicable option is adopted to ensure the emission of noise from the operation of the Waverley Wind Farm does not exceed a reasonable level;
 - (f) Requirements for post construction noise monitoring and assessment; and
 - (g) Provisions regarding the review, and updating, of the Noise Management Plan.
- 39 The Noise Management Plan shall be prepared by an appropriately qualified and experienced acoustical consultant.
- 40 The consent holder shall pay all reasonable costs associated with acoustic compliance testing or assessment undertaken in accordance with this resource consent.

Pre-Instalment Assessment

- 41 Prior to the installation of any wind turbine authorised as part of this resource consent, the consent holder shall provide the Group Manager - Environmental Services, South Taranaki District Council with an Acoustics Emissions Report to certify that the wind turbines will comply with the requirements of Condition 36 of this resource consent.
- 42 Prior to the installation of any wind turbine authorised as part of this resource consent, the consent holder shall provide a Noise Prediction Report to the Group Manager - Environmental Services, South Taranaki District Council to certify in accordance with "*NZS6808:2010 Acoustics – Wind Farm Noise*" (in particular Sections 8.1 and 8.4.2). The Noise Prediction Report shall:
- (a) Demonstrate, based on the sound power levels for the selected wind turbines, that the limits in Condition 36 of this resource consent can be complied with; and

- (b) Include the finalised 35 dBA contour for the Waverley Wind Farm.

Background noise surveys

- 43 Prior to the commencement of construction works authorised as part of this resource consent (other than geotechnical or other exploratory surveys), the consent holder shall engage an appropriately qualified and experienced acoustic consultant to undertake pre-installation background noise surveys at positions identified by the consent holder in consultation with the Group Manager – Environmental Services, South Taranaki District Council. Pre-installation background sound level measurements shall be made at all assessment locations required by Condition 36 that are within the 35 dB (L_{90 (10 min)}) wind farm noise contour predicted by the Noise Prediction Report (required by Condition 42). The assessment locations may be grouped as described by Section 7.1.5 of "NZS 6808:2010 Acoustics – Wind Farm Noise". The surveys shall be undertaken, and results assessed, in accordance with Sections 7 and 8.2 of "NZS6808:2010 Acoustics – Wind Farm Noise". The results of the survey shall be provided to the Group Manager – Environmental Services, South Taranaki District Council for endorsement acting in a technical certification capacity prior to the commencement of construction works authorised as part of this resource consent (other than geotechnical or other exploratory surveys).

Note: For the avoidance of doubt, the previous background sound monitoring undertaken by Malcolm Hunt Associates in 2007 is now out of date and should not be used in any way as part of the pre-construction background noise surveys.

Compliance Testing

- 44 A compliance assessment report shall be prepared in accordance with Section 8.4.1 of "NZS6808:2010 Acoustics – Wind Farm Noise" by a suitably qualified independent person agreed to by the South Taranaki District Council and shall be submitted to the Group Manager – Environmental Services, South Taranaki District Council for certification within three months following the date any wind turbine first generates electricity and again within three months of electricity being generated from the last turbine to be commissioned. Measurement positions used for compliance testing shall include (but not be limited to):

Site #61 – 330 Peat Road

Site #110 – 247 Waipipi Road

Site #54 – 564 Waverly Beach Road

Site #98 – 395 Rākaupiko Road

Alternative positions shall be selected if the owner / occupiers do not allow noise monitoring to take place at any of these sites. Any alternative position shall be agreed to by the Group Manager-Environmental Services, South Taranaki District Council, prior to undertaking the noise monitoring.

Peer Review

- 45 The consent holder shall provide the results of long term monitoring undertaken in accordance with Condition 44 of this resource consent to the Group Manager – Environmental Services, South Taranaki District Council in the event that this is required for the peer review of any of the management plans or reports identified in the above conditions. The Group Manager – Environmental Services, South Taranaki District Council may have any plan or report reviewed by an independent expert at the consent holder’s cost. In addition, the results of the long term monitoring shall be provided to Ngaa Rauru Kiitahi and Te Runanga o Ngati Ruanui Trust.

TRAFFIC

- 46 The routes, vehicle types, traffic movements and traffic generation related to the Waverley Wind Farm shall be in general accordance with those described in the Transportation Assessment by Traffic Design Group appended to "*Waverley Wind Farm – Resource Consent Applications and Assessment of Environmental Effects*" dated 14 April 2016.

Construction Traffic Management Plan

- 47 At least 30 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall submit a Construction Traffic Management Plan to the Group Manager - Environmental Services, South Taranaki District Council to certify that the plan meets the objectives in Condition 47(a) to (g). The objectives of the Construction Traffic Management Plan shall be to:
- (a) Ensure all specific legislative requirements (e.g. statutes, regulations and / or bylaws) and consent conditions in relation to construction traffic are adhered to;
 - (b) Encourage a culture of road safety awareness and commitment;
 - (c) Ensure best practice in transport safety;
 - (d) Ensure emergency services are not obstructed;

- (e) Minimise disruption to the surrounding community, farming operations, rural services and rail operations;
- (f) Minimise traffic generation; and
- (g) Encourage the participation of the surrounding community in maximising safety and minimising disruption.

48 In order to achieve the objectives established in Condition 47 above, the Construction Traffic Management Plan shall, as a minimum, address the following matters:

- (a) The construction programme and the associated traffic volumes estimated for each construction phase;
- (b) Driver protocols aimed at ensuring safe driving practices and full compliance with the law, including speed limits, appropriate following distances, observing engine braking restrictions, and affording priority to other traffic;
- (c) The details of the intended traffic arrangements and provision for the delivery of over-dimension and over-weight loads to the Waverley Wind Farm;
- (d) The nature and timing of road / intersection improvements to be implemented;
- (e) The traffic management measures to be implemented at intersections, level crossings, stock crossings and access points to local properties;
- (f) The timing of construction traffic to minimise disruption to, and potential safety issues for, the operation of school bus services;
- (g) Requirements for the monitoring of construction traffic;
- (h) Signage to warn drivers approaching the Waverley Wind Farm;
- (i) Communication arrangements with affected residents, South Taranaki District Council, New Zealand Transport Agency, KiwiRail, schools, emergency services and other key stakeholders, including provision of prior notice of traffic arrangements and any road closures; and
- (j) The ongoing review and evaluation of the contents of the Construction Traffic Management Plan throughout the period of construction works.

- 49 The Construction Traffic Management Plan shall be prepared by a suitably experienced and qualified traffic engineer and in consultation with the New Zealand Transport Agency and the Group Manager – Engineering Services, South Taranaki District Council.
- 50 The consent holder shall distribute copies of the Construction Traffic Management Plan certified by the Group Manager - Environmental Services, South Taranaki District Council to emergency services and landowners / occupiers with access to the local construction traffic routes at least 10 working days prior to the commencement of construction works authorised as part of this resource consent.

Physical Road Improvements

- 51 Prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall complete the upgrade of the intersection of State Highway 3 and Peat Road so that it can safely accommodate all of the expected construction traffic that will utilise the intersection. The upgrade of the intersection of State Highway 3 and Peat Road shall be undertaken in accordance with Austroads Design Guidelines (Austroads Part 4A: Unsignalised and Signalised Intersections) and the Transportation Assessment by Traffic Design Group appended to "*Waverley Wind Farm – Resource Consent Applications and Assessment of Environmental Effects*" dated 14 April 2016. The upgrade of the intersection shall also be undertaken to the satisfaction of the New Zealand Transport Agency.
- 52 Prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall complete the upgrade of the width of Peat Road so that it is capable of safely providing for two-way traffic along the construction traffic route. In addition, the pavement strength of the section of Peat Road to be utilised for construction traffic shall be upgraded. The improvements to Peat Road shall be undertaken in accordance with the New Plymouth District Council's Code of Practice for Infrastructure 2009: Part 3 Roads and to the satisfaction of the Group Manager – Engineering Services, South Taranaki District Council.
- 53 The consent holder shall, in consultation with the Group Manager – Engineering Services, South Taranaki District Council, undertake and agree the results of a baseline survey of the condition of all local roads to be used for construction traffic prior to the commencement of construction works authorised as part of this resource consent.

54 The consent holder shall:

- (a) Maintain the roads to be used by construction traffic in accordance with the South Taranaki District Council's Local Amendments to "NZS 4404 *Land Development and Subdivision Infrastructure*" and to the design approval of the Group Manager – Engineering Services, South Taranaki District Council; and
- (b) Ensure that on completion of construction activities for the Waverley Wind Farm, the roads used by construction traffic are in no worse condition to that which existed prior to the commencement of construction as documented in the baseline survey conducted as a requirement of Condition 53.

Note: Prior to the commencement of the construction works authorised as part of this resource consent, the consent holder may need to enter into a road maintenance agreement with the South Taranaki District Council (as Road Controlling Authority) for any roads that are expected to experience an increase in traffic volumes of 150% or more and continue for the period of that increase in traffic volumes.

55 Prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall obtain an over-dimension and / or over-weight load permit from the relevant issuing authority(s) for any over-dimension or over-weight loads travelling to the Waverley Wind Farm. The consent holder shall abide by the requirements of any such permit issued. The consent holder shall also provide the Group Manager - Environmental Services, South Taranaki District Council with a copy of any over-dimension and / or over-weight load permits issued.

Signage

56 At least 10 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall, subject to the approval of the New Zealand Transport Agency, erect signage along the margin of State Highway 3 informing approaching drivers from the east and the west of the potential visibility of the Waverley Wind Farm, as well as the potential to encounter construction traffic. The final location of the signage shall be determined in consultation with the New Zealand Transport Agency, the Group Manager – Environmental Services, South Taranaki District Council and the Consultative Group to be established under Condition 131 of this resource consent.

- 57 The signage informing approaching drivers shall be maintained for the duration of the construction works and for a period of 12 months following the date any wind turbine first generates electricity.

ECOLOGICAL MANAGEMENT / MITIGATION

Fencing

- 58 Prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall temporarily fence the boundaries of the Environmental Buffer Zone as defined in the figure by Isthmus Group dated April 2017. The temporary fences shall be maintained by the consent holder for the duration of the construction works and should be of suitable quality so that it presents a visible barrier to any contractors or machinery from entering the Environmental Buffer Zone.
- 59 Prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall fence off the section of the Waipipi Stream identified in the Environmental Buffer Zone as defined in the figure by Isthmus Group dated April 2017. The fencing shall be maintained by the consent holder for the life of the Waverley Wind Farm and should be of a suitable quality so that it prevents stock (particularly cattle) from entering the Waipipi Stream and its riparian margins.
- 60 Prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall fence off the wetlands identified as EV1 and EV3 in the Terrestrial and Freshwater Ecology Assessment by Ryder Consulting Limited appended to "*Waverley Wind Farm – Resource Consent Applications and Assessment of Environmental Effects*" dated 14 April 2016. The fencing shall be maintained by the consent holder for the life of the Waverley Wind Farm and should be of suitable quality so that it prevents stock (particularly cattle) from entering the wetlands.

Ecological Monitoring and Management Plan

- 61 At least 80 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall provide the Department of Conservation (Director, Operations, Central North Island) with the opportunity to review and comment on the draft Ecological Monitoring and Management Plan required in accordance with Conditions 63 and 64.

- 62 In the event that no written comments are received from the Department of Conservation (Director, Operations, Central North Island) on the draft Ecological Monitoring and Management Plan within 40 working days of it being provided by the consent holder, the consent holder may assume that no written comments will be forthcoming from the Department of Conservation (Director, Operations, Central North Island).
- 63 At least 20 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall submit an Ecological Monitoring and Management Plan (including all written comments provided by the Department of Conservation (Director, Operations, Central North Island) and the consent holder's response to those comments) to the Group Manager - Environmental Services, South Taranaki District Council to certify that the plan meets the objectives in Condition 63(a) to (e). The Ecological Monitoring and Management Plan shall be prepared by a suitably experienced and qualified person and shall provide for the following objectives:
- (a) Restore the ecological values of the Waipipi Stream within the project site boundaries of the Waverley Wind Farm;
 - (b) Restore the ecological values of the wetlands identified as EV1 and EV3 in the Terrestrial and Freshwater Ecology Assessment by Ryder Consulting Limited appended to "*Waverley Wind Farm – Resource Consent Applications and Assessment of Environmental Effects*" dated 14 April 2016;
 - (c) Translocate and establish a successful population of fennel-leaved pondweed (*Stuckenia pectinata*), blunt pondweed (*Potamogeton ochreatus*) and horse's mane weed (*Ruppia polycarpa*) from the farm ponds to be drained and infilled to a location(s) within the Environmental Buffer Zone as defined in the figure by Isthmus Group dated April 2017;
 - (d) Capture and translocate native fish, koura and eels from the farm ponds to be drained and infilled to suitable habitat within the Environmental Buffer Zone as defined in the figure by Isthmus Group dated April 2017; and
 - (e) Create or enhance foraging habitat for shag and other waterbird species to compensate for the loss of the 2.6 hectare farm pond that is to be drained and infilled.
- 64 In order to achieve the objectives established in Condition 63 above, the Ecological Monitoring and Management Plan shall, as a minimum, address the following matters:

- (a) A clear description of the timing of any restoration works proposed;
- (b) The detailed measures proposed to restore the ecological and amenity values of the Waipipi Stream, including via the implementation of stock fencing as required in accordance with Condition 59 above;
- (c) A planting plan for the riparian margins of the Waipipi Stream, which includes details on the proposed indigenous plant species to be planted and intended planting densities;
- (d) The detailed measures proposed to restore the ecological and amenity values of the wetlands identified as EV1 and EV3 in the Terrestrial and Freshwater Ecology Assessment by Ryder Consulting Limited appended to "*Waverley Wind Farm – Resource Consent Applications and Assessment of Environmental Effects*" dated 14 April 2016, including via the infilling of drains and the implementation of stock fencing as required in accordance with Condition 60 above;
- (e) The detailed measures proposed to translocate fennel-leaved pondweed (*Stuckenia pectinata*), blunt pondweed (*Potamogeton ochreatus*) and horse's mane weed (*Ruppia polycarpa*) 12 months prior to the draining and infilling of the farm ponds;
- (f) The detailed measures proposed to capture and translocate native fish, koura and eels from the farm ponds prior to their draining and infilling in accordance with the permit obtained from the Ministry for Primary Industries;
- (g) The detailed measures proposed, and at what location(s), to create or enhance foraging habitat for shag and other waterbird species in order to compensate for the loss of the 2.6 hectare farm pond that is to be drained and infilled;
- (h) Requirements for monitoring, and annual reporting, of on-site enhancement works (including riparian revegetation, plant survival rates and the success of the translocation of aquatic plants); and
- (i) Requirement for monitoring and reporting of all other ecological surveys or programmes occurring on site.

65 The consent holder shall contribute \$25,000 (CPI adjusted from the date of grant of this resource consent) per annum to the Ashburton River / Hakatere Shorebird Management Programme from the date any wind turbine first

generates electricity, and until such time as the Waverley Wind Farm is decommissioned. The purpose of the contribution is to compensate for the mortality predictions of the individual species identified in Condition 82, while also recognising the benefits of the contribution to other bird species. The consent holder shall provide written verification of the contribution to the Group Manager – Environmental Services, South Taranaki District Council within 10 working days of the payment being made to the programme annually.

- 66 In addition to Condition 65, the consent holder shall make a one-off contribution of \$25,000 to the Ashburton River / Hakatere Shorebird Management Programme from the date any wind turbine first generates electricity in order to assist with establishment and administration costs for the programme. The consent holder shall provide written verification of the contribution to the Group Manager – Environmental Services, South Taranaki District Council within 10 working days of the payment being made to the programme.
- 67 In the event that the Ashburton River / Hakatere Shorebird Management Programme ceases:
- (a) Prior to the date any wind turbine first generates electricity, the consent holder shall contribute the \$25,000 (CPI adjusted from the date of grant of this resource consent) per annum required in accordance with Condition 65 and the one-off contribution of \$25,000 required in accordance with Condition 66 to any other Shorebird Management programme administered or endorsed by the Department of Conservation; or
 - (b) During the operation of the Waverley Wind Farm (i.e. from the date any wind turbine first generates electricity), the consent holder shall contribute the \$25,000 (CPI adjusted from the date of grant of this resource consent) per annum required in accordance with Condition 65 to any other Shorebird Management programme administered or endorsed by the Department of Conservation.

EXPERT PANEL AND BIRD COLLISION MONITORING

Establishment of Expert Panel

- 68 At least 80 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall submit the names and curriculum vitae of four independent experts with appropriate qualifications and experience in the monitoring of avifauna ecology and / or risk assessment to the Group Manager – Environmental Services, South Taranaki District Council. Two of the experts shall be nominated by the Department of

Conservation (Director, Operations, Central North Island), and two shall be nominated by the consent holder.

- 69 Notwithstanding Condition 68 above, the two experts nominated by the Department of Conservation (Director, Operations, Central North Island) may be employees of, or contractors to, the Department of Conservation.
- 70 The Group Manager – Environmental Services, South Taranaki District Council shall select two experts from the names provided by the consent holder to form an expert panel in accordance with Condition 71 below. One expert must be from the names submitted by the Department of Conservation (Director, Operations, Central North Island), and one expert must be from the names submitted by the consent holder.
- 71 The consent holder shall establish the expert panel within five working days of the selection of the two experts by the Group Manager – Environmental Services, South Taranaki District Council. The expert panel shall be maintained for the duration of the bird collision monitoring required in accordance with Condition 81 below.
- 72 In the event that either member of the expert panel is unable, for whatever reason, to continue in their role in accordance with this resource consent, the party which nominated the expert shall submit the name and curriculum vitae of a replacement expert with appropriate qualifications and experience in the monitoring of avifauna ecology and / or risk assessment to the Group Manager – Environmental Services, South Taranaki District Council for approval.
- 73 The role of the expert panel is to assist the Group Manager – Environmental Services, South Taranaki District Council with the following:
- (a) The provision of advice and assistance to the consent holder in respect of the consent holder's responsibilities in accordance with this resource consent in relation to the monitoring and management of potential adverse effects on bird species;
 - (b) The provision of oversight, and input into, the implementation of the conditions of this resource consent relating to potential adverse effects on bird species on behalf of the Group Manager – Environmental Services, South Taranaki District Council; and
 - (c) The provision of advice and assistance to the consent holder and the Group Manager – Environmental Services, South Taranaki District Council in the event of any bird strike mortality events.

- 74 The consent holder shall meet the reasonable costs incurred by the expert panel in undertaking its duties as set out in Condition 73 above, subject to normal business practices of invoicing and accounting.

Bird Collision Monitoring Plan

- 75 At least 60 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall submit the draft Bird Collision Monitoring Plan required in accordance with Conditions 77 and 78 below to the expert panel for review and comment.
- 76 The expert panel shall provide its written comments (if any) on the draft Bird Collision Monitoring Plan to the consent holder at least 40 working days prior to the commencement of construction works authorised as part of this resource consent.
- 77 At least 20 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall submit the Bird Collision Monitoring Plan (including all written comments provided by the expert panel and the consent holder's response to those comments) to the Group Manager – Environmental Services, South Taranaki District Council to certify that the plan meets the objective in Condition 77(a). The Bird Collision Monitoring Plan shall be jointly prepared by a suitably experienced and qualified avian expert and a suitably experienced and qualified bio-statistician, and shall provide for the following objective:
- (a) Measure the rates of bird mortality from collisions at the Waverley Wind Farm.
- 78 In order to achieve the objective established in Condition 77 above, the Bird Collision Monitoring Plan shall describe the methods for recording the frequency of collisions resulting in mortality for all bird species. These methods shall be statistically robust and include, but not be limited to, the following:
- (a) Calculating the probability and rate of bird carcass loss to scavengers, decomposition and other causes, taking into account temporal, environmental and other sources of variation;
 - (b) Calculating the probability of carcass detection by searchers, which may include searching assisted by suitably-trained dogs, taking into account temporal, environmental, searcher identity and other sources of variation;
 - (c) A data collection and analysis regime specifying the timing, location and duration of monitoring at a statistically derived number of wind turbines

and wind monitoring masts, taking into account the statistical properties of the avian data presented in the Assessment of Potential Risk to Birds by Boffa Miskell appended to "*Waverley Wind Farm – Resource Consent Applications and Assessment of Environmental Effects*" dated 14 April 2016, and other sources of relevant information. The purpose of the data collection and analysis regime is to ensure that a reliable estimate of bird strike mortality at all wind turbines and wind monitoring masts is obtained;

- (d) Methods to account for carcass loss and detection probability when estimating rates of mortality across the Waverley Wind Farm;
- (e) Methods to accurately record the condition (partial, full or feather spot) and cause of death; and
- (f) Methods to record, and electronically store, audit and backup data.

79 In addition to the requirements specified in Condition 78, the Bird Collision Monitoring Plan shall:

- (a) Specify that all carcasses found within the project site boundaries as defined in Figure 1 of Appendix A to the Landscape and Visual Assessment by Isthmus Group appended to "*Waverley Wind Farm – Resource Consent Applications and Assessment of Environmental Effects*" dated 14 April 2016 shall be labelled with a unique number, bagged and frozen for future reference and possible necropsy of native species by a trained veterinarian, to determine cause of death, when this is not apparent. A copy of the associated data sheet for each carcass will be replicated, bagged and frozen with the carcass at all times. All carcass shall be photographed as found and mapped using GPS location on a detailed map of the search area showing the location of the wind turbines and associated facilities, such as internal access roads and wind monitoring masts;
- (b) Identify additional measures that may be implemented by the consent holder in order to avoid, remedy, mitigate and / or compensate for the potential adverse effects of the Waverley Wind Farm on bird species in the event that the bird mortality for any individual species listed in Condition 82 equals or exceeds the Mitigation Review Threshold for the individual species; and
- (c) Specify the methodology that will be utilised to identify applicable turbines for the purpose of Condition 93(b) below.

- 80 As part of the certification of the Bird Collision Monitoring Plan in accordance with Condition 77 above, the Group Manager – Environmental Services, South Taranaki District Council may seek advice and comment from the expert panel on the appropriateness of the methods proposed by the consent holder to achieve the objective of the Bird Collision Monitoring Plan.

Bird Collision Monitoring

- 81 Bird collision monitoring shall commence immediately following the date any wind turbine first generates electricity and continue for a period of ten years (or until an alternative date as determined by the Group Manager – Environmental Services, South Taranaki District Council in accordance with Condition 91) and at the frequencies specified in the Bird Collision Monitoring Plan.
- 82 Bird collision monitoring shall be measured against the following mortality predictions for the listed individual species:

Species	Conservation Status	Predicted Mortality ⁹⁸	Mitigation Review Threshold ⁹⁹	Immediate Review Threshold ¹⁰⁰
<i>Nationally Critical or Nationally Endangered Species</i>				
Black stilt	Critical	NP ¹⁰¹	0.5	2
Australasian bittern	Critical	NP	0.5	2
Reef heron	Endangered	NP	0.5	2
Black-billed gull	Critical	NP	0.5	2
Black-fronted tern	Endangered	NP	0.5	2
Any other nationally critical or nationally endangered species		NP	0.5	2
<i>Nationally Vulnerable Species</i>				
Caspian tern	Vulnerable	NP	2	5
Wrybill	Vulnerable	NP	2	5
Banded dotterel	Vulnerable	NP	2	5
Any other nationally vulnerable species		NP	2	5

⁹⁸ Based on pre-construction mortality modelling.

⁹⁹ Based on a five-year rolling annual mean of bird mortality adjusted in accordance with Condition 78.

¹⁰⁰ Based on actual bird mortality recorded over a 12-month period between 1 June and 31 May.

¹⁰¹ 'NP' means no prediction.

<i>At Risk and Other Species</i>				
New Zealand dabchick	Recovering	NP	5	10
New Zealand dotterel	Recovering	NP	5	10
Red-billed gull	Declining	NP	5	10
White-fronted tern	Declining	NP	5	10
Godwit	Declining	NP	5	10
New Zealand pipit	Declining	NP	5	10
Brown teal	Recovering	NP	5	10
Variable oystercatcher	Recovering	NP	5	10
Fluttering shearwater	Relict	NP	5	10
Northern diving petrel	Relict	NP	5	10
Black shag	Naturally uncommon	NP	5	10
Little black shag	Naturally uncommon	NP	5	10
Royal spoonbill	Naturally uncommon	NP	5	10
North Island fernbird	Declining	NP	5	10
Spotless crane	Declining	NP	5	10
Pied stilt ¹⁰²	Not threatened	1	5	20
Pied oystercatcher ¹⁰³	Declining	3	10	20
Any other at risk species		NP	5	10

Note: The conservation status specified in Condition 82 is that stated in the publication "Robertson, H.A.; Baird, K.; Dowding, J.E.; Elliott, G.P.; Hitchmough, R.A.; Miskelly, C.M.; McArthur, N.; Colin F.J. O'Donnell, C.J.F.; Sagar, P.M.; Scofield, R.P.; Taylor, G.A. 2017: Conservation status of New Zealand birds, 2016. New Zealand Threat Classification Series 19." Department of Conservation, Wellington. 23 pp.

¹⁰² Review thresholds differ from other species based on modelling and to reflect Conditions 65 and 66.

¹⁰³ Review thresholds differ from other species based on modelling and to reflect Conditions 65 and 66.

- 83 In the event that the conservation status of any of the individual bird species listed in Condition 82 changes as a result of an amendment to the New Zealand Threat Classification as published by the Department of Conservation, then the Mitigation Review Threshold and Immediate Review Threshold for the new, relevant threat classification shall apply.
- 84 A draft annual monitoring report shall be jointly prepared by a suitably experienced and qualified avian expert and a suitably experienced and qualified bio-statistician, and be provided to the expert panel for review and comment within 20 working days of the anniversary of the commencement of bird collision monitoring. The annual monitoring report shall present, summarise and analyse the data collected in the preceding year and report on the operation of the Waverley Wind Farm against the objective of the Bird Collision Monitoring Plan and the mortality predictions for the individual species set out in Condition 82 above.
- 85 The expert panel shall provide its written comments (if any) on the draft annual monitoring report to the consent holder within 20 working days of receipt of the report from the consent holder.
- 86 The consent holder shall submit the annual monitoring report (including all comments from the expert panel and the consent holder's response to those comments) to the Group Manager – Environmental Services, South Taranaki District Council within 60 working days of the anniversary of the commencement of bird collision monitoring. A copy of the annual monitoring report shall also be provided to the Department of Conservation (Director, Operations, Central North Island).
- 87 Upon receiving the annual monitoring report the Group Manager – Environmental Services, South Taranaki District Council may seek advice and comment from the expert panel on the data presented in the report and the operation of the Waverley Wind Farm against the objective of the Bird Collision Monitoring Plan and the mortality predictions for the individual species set out in Condition 82 above.

Bird Collision Monitoring Review

- 88 On the fifth anniversary of the date any wind turbine first generates electricity the consent holder shall commission a bird collision monitoring review report by a suitably experienced and qualified avian expert that:
- (a) Reviews the results of the monitoring required in accordance with the Bird Collision Monitoring Plan against the mortality predictions for the individual species specified in Condition 82 above;

- (b) Considers whether the monitoring required in accordance with the Bird Collision Monitoring Plan needs to continue, and if so at what frequency; and
 - (c) Considers whether any additional mitigation and / or compensation, as identified in the Bird Collision Monitoring Plan, needs to be implemented by the consent holder in the event that bird mortality for any individual species listed in Condition 82 has equaled or exceeded the Mitigation Review Threshold for the individual species.
- 89 The consent holder shall submit the draft bird collision monitoring review report to the expert panel for review and comment. The expert panel shall provide its written comments (if any) on the draft bird collision monitoring review report to the consent holder within 20 working days of receipt of the report from the consent holder.
- 90 The consent holder shall submit the bird collision monitoring review report (including all comments from the expert panel and the consent holder's response to those comments) to the Group Manager – Environmental Services, South Taranaki District Council within 20 working days of the receipt of written comments from the expert panel. A copy of the bird collision monitoring review report shall also be provided to the Department of Conservation (Director, Operations, Central North Island).
- 91 The Group Manager – Environmental Services, South Taranaki District Council shall review the bird collision monitoring review report, subject to any advice from the expert panel, and determine whether:
- (a) The monitoring required in accordance with the Bird Collision Monitoring Plan needs to continue, and if so at what frequency;
 - (b) Any additional mitigation and / or compensation, as identified in the Bird Collision Monitoring Plan, that should be implemented by the consent holder in the event that bird mortality for any individual species listed in Condition 82 has equaled or exceeded the Mitigation Review Threshold for the individual species; and
 - (c) There is a need to serve notice on the consent holder of its intention to review any of the ecological management / mitigation / compensation conditions of this resource consent in accordance with Sections 128 to 131 of the Resource Management Act 1991 where there is not an agreement between the consent holder and the expert panel as to the need for, or

quantum of, any additional ecological management / mitigation / compensation.

- 92 Where there is agreement between the consent holder and the expert panel over the need for, or quantum of, any additional ecological management / mitigation / compensation, the consent holder shall implement such agreement.

Immediate Review

- 93 In the event that the bird collision monitoring required in accordance with the Bird Collision Monitoring Plan and Condition 81 identifies that the mortality of any individual bird species listed in Condition 82 has equaled or exceeded the Immediate Review Threshold for that individual species, then the consent holder shall:

- (a) Notify the Group Manager – Environmental Services, South Taranaki District Council and the expert panel within 24 hours of becoming aware of the exceedance; and
- (b) Immediately suspend the operation of the applicable wind turbine(s), as identified by the suitably experienced and qualified avian expert responsible for bird collision monitoring at the Waverley Wind Farm.

- 94 The suitably experienced and qualified avian expert responsible for bird collision monitoring at the Waverley Wind Farm shall undertake an investigation and complete a draft report on the possible cause of the bird mortalities within 10 working days of the consent holder notifying the Group Manager – Environmental Services, South Taranaki District Council. The draft report shall be immediately provided to the expert panel for review and comment.

- 95 The consent holder shall convene a meeting with the expert panel within five working days of their receipt of the draft report on the possible cause of the bird mortalities. The purpose of the meeting shall be to:

- (a) Review and discuss the findings of the draft bird mortality investigation report;
- (b) Consider whether any additional monitoring is required to further consider the potential cause of bird mortality;
- (c) Consider whether any additional mitigation and / or compensation, as identified in the Bird Collision Monitoring Plan, needs to be implemented by the consent holder; and

- (d) Consider whether it is appropriate for the applicable wind turbine(s) suspended in accordance with Condition 93(b) to re-commence operations, and whether there is a need for further controls on the interim operation of the relevant wind turbines (e.g. limiting operations at particular times of the day / season or in particular wind / weather conditions).
- 96 The consent holder shall submit the bird mortality investigation report (including all comments from the expert panel from the meeting and the consent holder's response to those comments) to the Group Manager – Environmental Services, South Taranaki District Council within five working days of convening a meeting with the expert panel in accordance with Condition 95. A copy of the bird mortality investigation report shall also be provided to the Department of Conservation (Director, Operations, Central North Island).
- 97 The Group Manager – Environmental Services, South Taranaki District Council shall, upon receipt of the bird mortality investigation report and as a matter of urgency, but subject to any advice from the expert panel, determine in consultation with the consent holder whether:
- (a) It is appropriate for the applicable wind turbine(s) suspended in accordance with Condition 93(b) to re-commence operations, and whether there is a need for further controls on the interim operation of the relevant wind turbines (e.g. limiting operations at particular times of the day / season or in particular wind / weather conditions);
 - (b) Consider whether any additional monitoring is required and at what frequency;
 - (c) Any additional mitigation and / or compensation, as identified in the Bird Collision Monitoring Plan, needs to be implemented by the consent holder; and
 - (d) There is a need to serve notice on the consent holder of its intention to review any of the conditions of this resource consent in accordance with Sections 128 to 131 of the Resource Management Act 1991 where there is not an agreement between the consent holder and the expert panel as to the matters specified in Conditions 96(a) to (d).
- 98 Where there is agreement between the consent holder and the expert panel over additional ecological management / mitigation / compensation, the consent holder shall implement such agreement.

LANDSCAPE MITIGATION

99 At least 80 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall write to the owner(s) of the dwellings at the following addresses, as well as the owners of Lot 201 DP401250 and Lot 3 DP401177, informing them of their entitlement to landscape mitigation:

DWELLING ¹⁰⁴	PROPERTY
51	92 Elsea Road
53	64 Rāngikura Road
54	77 Rāngikura Road (cnr Rangikura Road and Elsea Road)
55	120 Rāngikura Road
56	169 Rāngikura Road
57	Proposed residence on Waipipi Road
62	500 Rāngikura Road
91	204 Rākaupiko Road
92	264 Rākaupiko Road
93	285A Rākaupiko Road
96	371 Rākaupiko Road
97	391 Rākaupiko Road
98	395 (A & B) Rākaupiko Road
109	Proposed residence on Waipipi Road
110	Private residence on Waipipi Road
155	147 Stewart Road

Note: Conditions 99 to 107 of this resource consent shall not apply if alternative arrangements are agreed by contractual obligation between the consent holder and the property owner.

100 The written offer required by Condition 99 above shall inform the owner(s) of the dwelling that they may request the consent holder to undertake and maintain landscape mitigation relating to views from dwellings on the property prior to, or after, construction of the Waverley Wind Farm.

¹⁰⁴ As identified in Appendix C of the Landscape and Visual Assessment by Isthmus Group appended to "Waverley Wind Farm – Resource Consent Applications and Assessment of Environmental Effects" dated April 2016.

- 101 Within 40 working days of the date any wind turbine first generates electricity, the consent holder shall repeat the offer required by Condition 99 above to the owner(s) of any dwelling who have not already accepted the offer. The consent holder shall expressly state that the offer shall remain valid for 24 months following the date any wind turbine first generates electricity.
- 102 Where requested by the owner(s), the consent holder shall undertake landscape mitigation by means of on-site planting on those properties to mitigate the effects of the Waverley Wind Farm on views from dwellings. The mitigation techniques shall be set out in a property specific concept plan that is provided in draft form for approval by the owner(s) within 60 working days of the owner requesting landscape mitigation. The concept plan will typically consist of trees planted within the general vicinity of the dwelling to intercept views towards the Waverley Wind Farm.
- 103 Following approval of the concept plan by the owner(s), the consent holder shall implement the concept plan at a practicable time agreed between the consent holder and the owner(s), but preferably during the first planting season (May – September) following the approval of the concept plan.
- 104 Subject to Condition 105 below, the consent holder shall maintain the planting for 12 months following the completion of the planting. The maintenance of the planting shall include the consent holder replacing any trees that die within the first 12 months following the completion of the planting.
- 105 In the event that any owner(s) advises the consent holder that they wish to maintain the planting themselves, the consent holder shall pay the owner(s) the sum of money allocated in the cost estimate for maintenance set out in the approved concept plan.
- 106 In the event that any owner(s) advise the consent holder that they wish to implement the concept plan themselves, the consent holder shall pay the owner(s) the sum of money allocated in the approved concept plan on the agreement that the owner(s) shall carry out the planting themselves.
- 107 A copy of each concept plan, and confirmation that the works have been implemented and maintained (or that arrangements have been made for the owner(s) to implement and / or maintain the planting themselves in accordance with Conditions 105 and 106 above), shall be provided to the Group Manager – Environmental Services, South Taranaki District Council within 20 working days of the completion of such works or arrangements.

ARCHAEOLOGY

- 108 At least 20 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall submit an Accidental Discovery Protocol and Management Plan to the Group Manager - Environmental Services, South Taranaki District Council for endorsement acting in a technical certification capacity to certify that the plan meets the objectives in Condition 108(a) and (b). The Accidental Discovery Protocol and Management Plan shall be prepared by a suitably experienced and qualified archaeologist and in consultation with Ngaa Rauru Kiiitahi and Heritage New Zealand. The objectives of the Accidental Discovery Protocol and Management Plan shall be to:
- (a) Minimise the effects of construction works on any koiwi, taonga or archaeological features within the project site boundaries of the Waverley Wind Farm; and
 - (b) Ensure construction works are designed and implemented in accordance with the requirements of the Heritage New Zealand Pouhere Taonga Act 2014.
- 109 In order to achieve the objectives established in Condition 108 above, the Accidental Discovery Protocol and Management Plan shall, as a minimum, address the following matters:
- (a) Preconstruction protocols that may be carried out;
 - (b) Protocols for notification of relevant parties and site management procedures in the event any koiwi, taonga or archaeological features are uncovered at any time;
 - (c) Contact details for relevant parties;
 - (d) The procedures to be adopted during construction in potentially sensitive locations; and
 - (e) Training procedures for all site staff and contractors.
- 110 The consent holder shall ensure that a suitably experienced and qualified archaeologist is on site to monitor construction works (particularly surface clearing, trenching, and the formation of the internal access road network and foundation excavations) in the vicinity of the unmodified coastal dunes, Whenuakura River and the Waipipi Stream.

- 111 The consent holder shall ensure the archaeologist is given the opportunity to examine any archaeological deposits disturbed by construction works in the locations identified in Condition 110 above. The archaeologists shall make recommendations to the consent holder with respect to further examination of any archaeological deposits where appropriate. The consent holder shall implement the recommendations of the archaeologist and also notify the Group Manager – Environmental Services, South Taranaki District Council of these recommendations.
- 112 The requirements of the Accidental Discovery Protocol and Management Plan established in Condition 108 above, along with Conditions 110 and 111 above, shall only apply for those areas within the project site boundaries of the Waverley Wind Farm not subject to an archaeological authority obtained under the Heritage New Zealand Pouhere Taonga Act 2014.

Note: If required, the consent holder is responsible for obtaining archaeological authorities under Section 44 of the Heritage New Zealand Pouhere Taonga Act 2014 prior to the commencement of construction works authorised as part of this resource consent.

- 113 The consent holder shall provide an opportunity for a representative of Ngaa Rauru Kiittahi to be present on site during any examinations of archaeological deposits of potential significance to either iwi.

DUNE MANAGEMENT

- 114 At least 20 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall submit a Dune Management Plan to the Group Manager - Environmental Services, South Taranaki District Council to certify that the plan meets the objectives in Condition 114(a). The objective of the Dune Management Plan shall be to:
- (a) Avoid or mitigate the risk of dune instability within the project site boundaries as defined in Figure 1 of Appendix A to the Landscape and Visual Assessment by Isthmus Group appended to “*Waverley Wind Farm – Resource Consent Applications and Assessment of Environmental Effects*” dated 14 April 2016.
- 115 In order to achieve the objectives established in Condition 114 above, the Dune Management Plan shall, as a minimum, address the following matters:
- (a) The construction management controls to be utilised by the consent holder, in addition to those set out in the Earthworks and Construction

Management Plan required in accordance with Conditions 27 and 28 if necessary, in order to avoid or mitigate potential adverse effects on dune landforms within the project site boundaries as defined in Figure 1 of Appendix A to the Landscape and Visual Assessment by Isthmus Group appended to "*Waverley Wind Farm – Resource Consent Applications and Assessment of Environmental Effects*" dated 14 April 2016;

- (b) The location of areas of bare sand within the project site boundaries as defined in Figure 1 of Appendix A to the Landscape and Visual Assessment by Isthmus Group appended to "*Waverley Wind Farm – Resource Consent Applications and Assessment of Environmental Effects*" dated 14 April 2016 based on ground mapping;
- (c) The areas of bare sand that should be monitored, the monitoring methodology to be utilised (e.g. observation and photography), and the frequency of the monitoring to be undertaken by the consent holder (e.g. annual, quarterly, monthly); and
- (d) The mitigation planting (e.g. tauhinu or sand coprosma) and fencing measures that will be utilised to stabilise the movement of migrating dunes if necessary.

AIR TRAFFIC SAFETY

- 116 The consent holder shall advise the Civil Aviation Authority at least six months prior to the date any wind turbine first generates electricity of the finalised geographical co-ordinates of the sites where the wind turbines are to be installed.
- 117 The five wind turbines with the highest elevation above mean sea level, along with those wind turbines around the perimeter of the project site boundaries as defined in Figure 1 of Appendix A to the Landscape and Visual Assessment by Isthmus Group appended to "*Waverley Wind Farm – Resource Consent Applications and Assessment of Environmental Effects*" dated 14 April 2016, shall be lit with aviation obstacle lighting as follows:
 - (a) The spacing between the wind turbines fitted with aviation obstacle lighting must not exceed 1,850 metres;
 - (b) All aviation obstacle lighting will have an intensity of not less than 1,600 candela of red light as defined in Civil Aviation Rule Part 77, Appendix B10;

- (c) All aviation obstacle lighting must flash between 20 and 60 times per minute; and
 - (d) All aviation obstacle lighting must be located on, or above, the top of the nacelle of the wind turbine and shall be visible from all directions but must be shielded below the horizontal plane.
- 118 No later than five working days after the construction of all wind turbines is completed (or after each stage, if the Waverley Wind Farm is constructed in stages), the consent holder shall submit a registered surveyor's determination of the height and position of the wind turbines to the Civil Aviation Authority. The consent holder shall also submit proof of compliance with the aviation obstacle lighting standards set out in Condition 117 above. All correspondence to the Civil Aviation Authority in relation to this condition shall be copied to the General Manager – Environmental Services, South Taranaki District Council.
- 119 Should the consent holder decide not to proceed with the Waverley Wind Farm, the consent holder shall notify the Civil Aviation Authority within five working days of its decision.

COMMUNICATION SERVICES

- 120 The consent holder shall undertake an independent assessment, prepared by a person qualified in communication reception, of television reception at any residential dwelling either existing or consented at the date of notice of the decision on the resource consent applications for the Waverley Wind Farm under s114 of the Resource Management Act located within the intended coverage area, if it receives any complaints (within 12 months of the first wind turbine as part of the Waverley Wind Farm being commissioned) from occupants of that dwelling that post construction television reception is impaired. If the television reception quality is found to be impaired as a result of the operation of the Waverley Wind Farm, the consent holder shall undertake the best practicable measures to provide reasonable television reception.
- 121 The consent holder shall undertake an independent assessment, prepared by a person qualified in radio reception and transmission, of radio reception if it receives any complaints (within 12 months of the first wind turbine as part of the Waverley Wind Farm being commissioned) from users of radio transmitters that post construction radio reception or transmission is impaired. If the radio transmission quality is found to be impaired as a result of the operation of the Waverley Wind Farm, the consent holder shall undertake the best practicable measures to provide reasonable radio reception.

SHADOW FLICKER

- 122 The consent holder shall ensure that shadow flicker effects at any residential dwelling existing or consented at the date of notice of the decision on the resource consent applications for the Waverley Wind Farm under s114 of the Resource Management Act (and outside of the project site boundaries as defined in Figure 1 of Appendix A to the Landscape and Visual Assessment by Isthmus Group appended to "*Waverley Wind Farm – Resource Consent Applications and Assessment of Environmental Effects*" dated 14 April 2016) arising from the operation of the Waverley Wind Farm shall be no greater than 30 minutes per day, and a total of 30 hours per year.
- 123 At least 20 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall submit a Pre-Instalment Shadow Flicker Assessment to the Group Manager - Environmental Services, South Taranaki District Council. The Pre-Instalment Shadow Flicker Assessment shall be prepared by an appropriately qualified consultant and demonstrate that the proposed numbers, layout and type of wind turbines to be used in the Waverley Wind Farm will comply with the shadow flicker limits specified in Condition 122 above.

HAZARDOUS SUBSTANCES / CONTAMINANTS

- 124 At least 20 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall submit a Contaminant Spill Contingency Management Plan to the Group Manager - Environmental Services, South Taranaki District Council for endorsement acting in a technical certification capacity to certify that the plan meets the objectives in Condition 124(a) and (b). The Contaminant Spill Contingency Management Plan shall be prepared by a suitably qualified and experienced person and provide for the following objectives:
- (a) Ensure measures are implemented on the site of the Waverley Wind Farm in order to minimise the potential risk, and effects, of a spill of hazardous substances, fuels or other contaminants; and
 - (b) The use, handling or storage of hazardous substances during the construction, operation and maintenance of the Waverley Wind Farm complies with the requirements of Hazardous Substances and New Organisms Act 1996 and its associated regulations.

- 125 In order to achieve the objectives established in Condition 124 above, the Contaminant Spill Contingency Management Plan shall, as a minimum, address the following matters:
- (a) The identification of designated bulk fuel storage, contaminant storage facilities and re-fuelling locations;
 - (b) Measures to ensure that all contaminant storage or designated re-fuelling areas are bunded or contained in such a manner so as to prevent the discharge of contaminants;
 - (c) Requirements for all mobile fuel tankers to carry spill kits;
 - (d) Details on the contents of the spill kits;
 - (e) Records of the names of operators trained in spill response and remediation;
 - (f) Measures to ensure that all machinery is regularly maintained in such a manner so as to minimise the potential for leakage of contaminants;
 - (g) Measures to ensure that no machinery is cleaned, stored or refueled within 20 metres of the bed of any water body;
 - (h) Measures to ensure that all contaminants are removed from the site at the end of the construction works, except for those required for the on-going maintenance and operational activities at the Waverley Wind Farm;
 - (i) Details of an internal and external notification procedure in the event of a spill of contaminants; and
 - (j) The identification of measures to be undertaken to remediate a contaminant spill, including instructions for removing and disposing of contaminated material in a manner suitable to ensure no further contamination occurs.
- 126 The transformers and radiators in the electrical substation / switchyard building shall be located on pedestal foundations and enclosed by bunds. The bunds must be designed with sufficient capacity to retain all of the oil utilised in each of the transformers.
- 127 Electric and magnetic field levels at the project site boundaries as defined in Figure 1 of Appendix A to the Landscape and Visual Assessment by Isthmus Group appended to "*Waverley Wind Farm – Resource Consent Applications and Assessment of Environmental Effects*" dated 14 April 2016 shall not exceed the

limits in the International Commission on Non-Ionising Radiation Protection (ICNIRP) guidelines endorsed by the New Zealand Ministry of Health.

FIRE MANAGEMENT

128 At least 20 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall submit a Fire Management Plan to the Group Manager - Environmental Services, South Taranaki District Council to certify that the plan meets the objective in Condition 128(a). The Fire Management Plan shall be prepared by a suitably qualified and experienced person and provide for the following objective:

- (a) Ensure measures are implemented on the site of the Waverley Wind Farm in order to minimise the potential risk, and effects, of fire.

129 In order to achieve the objective established in Condition 128 above, the Fire Management Plan shall, as a minimum, address the following matters:

- (a) The identification of potential sources of combustion and fire during the construction, operation and maintenance of the Waverley Wind Farm;
- (b) Measures to minimise or prevent the potential for fire during the construction, operation and maintenance of the Waverley Wind Farm;
- (c) Sources of water for fire-fighting purposes and / or fire retardants across the site of the Waverley Wind Farm;
- (d) Protocols for the management of different fire events (e.g. grass fires, mechanical fires) across the site of the Waverley Wind Farm; and
- (e) Training procedures for all site staff and contractors.

COMMUNITY CONSULTATION / COMMUNICATION

130 The consent holder shall establish and publicise a toll-free telephone number so that members of the public may raise matters with, or make an enquiry of, the consent holder during the construction of the Waverley Wind Farm. The toll-free telephone number shall be established at least 10 working days prior to the commencement of construction works authorised as part of this resource consent, and shall be maintained until the completion of construction works. The toll-free telephone number shall be publicised by the following means:

- (a) Via the consent holder's website or social media;
 - (b) Via an advertisement in the South Taranaki Star, the Wanganui Chronicle and the Taranaki Daily News;
 - (c) Via the signage erected along the margin of State Highway 3 (subject to the approval of New Zealand Transport Agency);
 - (d) Via the site signage at the entrance to the Waverley Wind Farm on Peat Road; and
 - (e) As part of the Construction Traffic Management Plan distributed to landowners / occupiers with access to the local construction traffic routes.
- 131 At least 40 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall establish and co-ordinate a Consultative Group for the Waverley Wind Farm. Subject to Condition 133 below, this group is to be consulted, as a minimum, at least six monthly during the construction phase and over the first two years of the operation of the Waverley Wind Farm. Thereafter, the frequency of consultation is to be determined by a majority of the Consultative Group itself. Individual Consultative Group members may, with the agreement of the Group Manager - Environmental Services, South Taranaki District Council, call meetings at shorter intervals to deal with any interim matters that need to be addressed before the next scheduled meeting.
- 132 The objective of the Consultative Group will be to facilitate information flow between the consent holder's management team and the community, and will be an on-going point of contact between the consent holder and the community. The functions of the Consultative Group shall also include acting as a forum for relaying community concerns about the construction and on-going operation of the Waverley Wind Farm to the consent holder's on-site management team, developing acceptable means of addressing (where possible) and managing those concerns, and reviewing the implementation of measures to resolve and manage community concerns.
- 133 The consent holder shall be responsible for convening the meetings of the Consultative Group and shall cover the direct costs associated with the establishment and operation of the meetings. The consent holder shall be responsible for the keeping and distribution of the Consultative Group's minutes to all participants in the Consultative Group. A person independent of the consent holder shall chair the meeting. The chair of the Consultative Group shall be appointed by the Group Manager - Environmental Services, South Taranaki District Council.

- 134 The consent holder shall notify its intention to establish a Consultative Group for the Waverley Wind Farm project by public notice. The consent holder shall invite, as a minimum, the following parties to participate in the Consultative Group:
- (a) A representative of property owners and occupiers on local roads identified for use by construction traffic;
 - (b) An elected representative of the South Taranaki District Council;
 - (c) A delegate of the Department of Conservation (Director, Operations, Central North Island);
 - (d) A representative each from Ngaa Rauru Kiittahi and Te Runanga o Ngati Ruanui Trust; and
 - (e) Local residents.

No owner or occupier of any property on which the Waverley Wind Farm is located may be a member of the Consultative Group. The consent holder shall not be in breach of this condition if any one or more of the parties specified above do not wish to be members of the Consultative Group or to attend any particular meeting.

- 135 The Consultative Group shall cease to exist when a 75% majority of the Consultative Group vote that it is no longer necessary.
- 136 At least 20 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall publicly advertise the temporary closure of the informal access route through the site of the Waverley Wind Farm to the Tasman Sea and the Whenuakura River. The public notice shall be advertised in the South Taranaki Star and provide details on the expected duration of the access restrictions.

COMPLAINTS

- 137 The consent holder shall maintain and keep a Complaints Register to record any complaints about construction works and operation of the Waverley Wind Farm received by the consent holder in relation to traffic, noise, dust, television or radio reception interference, shadow flicker or any other environmental effects. The register shall record, where this information is available, the following:

- (a) The date, time and duration of the incident that resulted in the complaint;
- (b) The location of the complainant when the incident was detected;
- (c) The possible cause of the incident; and
- (d) Any corrective action taken by the consent holder in response to the complaint, including the timing of the corrective action.

138 The Complaints Register shall be available to staff and authorised agents of the South Taranaki District Council and to members of the Consultative Group at all reasonable times upon request. Complaints received by the consent holder that may infer non-compliance with the conditions of this resource consent shall be forwarded to the Group Manager - Environmental Services, South Taranaki District Council within 48 hours of the complaint being received.

DECOMMISSIONING AND SITE REHABILITATION

139 If any of the wind turbines cease to generate electricity for a continuous period of more than 24 months, the consent holder shall remove from the site all above ground structures associated with the operation of that wind turbine (including the turbine tower, wind turbine generator and externally housed transformer unit). The site of each wind turbine generator shall be restored and re-vegetated as pasture within 12 months of any wind turbine being removed.

REVIEW

140 Pursuant to Sections 128 to 131 of the Resource Management Act 1991, the South Taranaki District Council may one year after the commencement of this resource consent, and at five yearly intervals thereafter, serve notice on the consent holder of its intention to review any or all of the conditions of this resource consent for any of the following purposes:

- (a) To review the effectiveness of the conditions of this resource consent in avoiding, remedying or mitigating any adverse effects on the environment that may arise from the exercise of this resource consent (in particular, the potential adverse environmental effects in relation to ecology, archaeology, noise, earthworks, traffic and roading, visual, landscape and amenity effects);
- (b) To address any adverse effects on the environment which have arisen as a result of the exercise of this resource consent that were not anticipated at

the time of commencement of this resource consent, including addressing any issues arising out of complaints; and

- (c) To review the adequacy of, and necessity for, any of the monitoring programmes or management plans that are part of the conditions of this resource consent.

CHARGES

141 The consent holder shall pay to the South Taranaki District Council:

- (a) All required administration charges fixed by the South Taranaki District Council pursuant to Section 36 of the Resource Management Act 1991 in relation to the administration, monitoring and inspection of this resource consent; and
- (b) All other charges authorised by regulations.

APPENDIX B

CONSENT AUTHORITY:	South Taranaki District Council
CONSENT HOLDER:	Tararua Wind Power Limited
CONSENT TYPE:	Land Use Consent
ACTIVITY AUTHORISED:	The construction, operation and maintenance of a single circuit 110 kV transmission line between the Waverley Wind Farm and an electrical substation on Mangatangi Road, Waverley
SITE LOCATION:	Between Peat Road / Dryden Road and Mangatangi Road, Waverley
CONSENT DURATION:	Unlimited

GENERAL

- 1 The construction, operation and maintenance of the single circuit transmission line as part of the Waverley Wind Farm shall be undertaken in general accordance with the information provided in "*Waverley Wind Farm – Resource Consent Applications and Assessment of Environmental Effects*" dated 14 April 2016 and any other documentation relevant to the resource consent applications, including responses to requests for further information from the South Taranaki District Council in accordance with Section 92 of the Resource Management Act 1991 (all held on South Taranaki District Council file RML16030). In the event of any conflict or discrepancy between these documents and the conditions of this resource consent, the conditions shall be determinative.
- 2 Pursuant to Section 125(1) of the Resource Management Act 1991, this resource consent will lapse if not given effect to within 10 years of the commencement of this resource consent.
- 3 Pursuant to Section 134(1) of the Resource Management Act 1991, this resource consent may only be exercised by the consent holder, its successor, or any person acting under the prior written approval of the consent holder.

- 4 The consent holder shall ensure that all contractors engaged in undertaking activities authorised by this resource consent are made aware of the conditions of this resource consent relevant to their work area and the measures required for compliance with the conditions.
- 5 The consent holder shall notify the Group Manager - Environmental Services, South Taranaki District Council as to the commencement date of construction works authorised as part of this resource consent, at least 15 working days before such works commence.
- 6 The consent holder shall at all times construct, operate and maintain the transmission line in accordance with all management plans submitted to, and certified by, the Group Manager- Environmental Services, South Taranaki District Council as part of the conditions of this resource consent.

TRANSMISSION LINE CHARACTERISTICS

- 7 The transmission line and associated infrastructure shall be entirely located within the road / rail reserve and private properties identified in Table 1.4 of "*Waverley Wind Farm – Resource Consent Applications and Assessment of Environmental Effects*" dated 14 April 2016 and shall follow the alignment identified in Figure 1 of Appendix A to the Landscape and Visual Assessment by Isthmus Group appended to "*Waverley Wind Farm – Resource Consent Applications and Assessment of Environmental Effects*" dated 14 April 2016. A 30 metre wide transmission corridor may be utilised where the transmission line is located on private land.
- 8 The transmission line shall have a maximum of three conductors and a maximum voltage not exceeding 110 kV / 130 MVA.
- 9 The transmission line shall be supported on monopoles with a maximum height of 22 metres above ground level (excluding any earth wire), except where the transmission line is located in the road reserve along Swinbourne Street and Fookes Street in which case the maximum height of the monopoles shall be 14 metres above ground level (excluding any earth wire).
- 10 Notwithstanding Condition 9 above, double pole structures may be utilised to support the transmission line where topographical or technical constraints limit the utilisation of monopole structures (except where the transmission line is located in the road reserve along Swinbourne Street and Fookes Street). All double pole structures shall also have a maximum height of 22 metres above ground level (excluding any earth wire).

- 11 Where the transmission line and associated infrastructure is located in the road reserve along Swinbourne Street and Fookes Street, all monopoles shall be placed in the pole locations identified in the map entitled "*Proposed 110 kV Overhead Line Route – Trustpower*", attached to the further information response provided to the South Taranaki District Council on 19 October 2016.

PLANS

- 12 At least 40 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall provide the Group Manager - Environmental Services, South Taranaki District Council with a set of final design drawings for the single circuit transmission line. The final design drawings shall, as a minimum, include:
- (a) The alignment of the transmission line from the Waverley Wind Farm to the electrical substation on Mangatangi Road, Waverley;
 - (b) The location of all pole structures, including the identification of all double pole structures; and
 - (c) The specifications of all pole structures.
- 13 Within 40 working days of the transmission line first being utilised to convey electricity from the Waverley Wind Farm to the electrical substation on Mangatangi Road, Waverley, the consent holder shall provide the Group Manager - Environmental Services, South Taranaki District Council with a set of as-built plans of the transmission line and all pole structures.

EARTHWORKS AND CONSTRUCTION

- 14 At least 20 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall submit an Earthworks and Construction Management Plan to the Group Manager – Environmental Services, South Taranaki District Council to certify that the plan meets the objectives in Condition 14(a) to (d). The Earthworks and Construction Management Plan shall be prepared by an experienced and appropriately qualified person and shall provide for the following objectives:
- (a) Minimise the volume of earthworks required for the construction of the transmission line;

- (b) Maximise the effectiveness of erosion and sediment control measures associated with earthworks by minimising sediment generation and sediment laden runoff;
- (c) Minimise the overall area of disturbance so as to reduce the potential impact on any vegetation, streams, ponds, wetlands and potential archaeological features along the alignment of the transmission line; and
- (d) Ensure control and / or mitigation of the adverse effects of any dust emissions.

15 In order to achieve the objectives established in Condition 14 above, the Earthworks and Construction Management Plan shall, as a minimum, address the following matters:

- (a) An explanation of how the Earthworks and Construction Management Plan shall be implemented and the associated roles, responsibilities and contact details for the principal persons responsible for management during the construction period;
- (b) A clear description of the planned staging of works and the description of earthworks in each stage, including detailed site plans;
- (c) Confirmation of the volumes of earthworks required;
- (d) The engineering controls, supervision and certification that will be applied to each stage of development;
- (e) The specific erosion and sediment control measures that will be applied to each stage of earthworks;
- (f) The specific dust control measures that will be applied to each stage of earthworks;
- (g) The engineering and management procedures for the disposal of excess / unsuitable materials; and
- (h) Details on the frequency of inspections and monitoring of all stormwater, dust, erosion and sediment control measures throughout each stage of construction works, including details of the experienced and appropriately qualified person responsible for inspections and monitoring.

- 16 All earthworks required for the construction of the transmission line shall be undertaken in accordance with the Taranaki Regional Council's "*Guidelines for Earthworks in the Taranaki Region, 2006.*"

NOISE

Construction Noise

- 17 Noise from all construction works associated with the establishment of the transmission line shall be measured and assessed in accordance with the requirements and limits of "*NZS6803:1999 Acoustics – Construction Noise.*"
- 18 At least 20 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall submit a Construction Noise Management Plan to the Group Manager - Environmental Services, South Taranaki District Council to certify that the plan meets the objectives in Condition 18(a) to (d). The Construction Noise Management Plan shall be generally in accordance with Section 8 and the relevant annexures of "*NZS6803:1999 Acoustics – Construction Noise*", which detail the relevant types of construction to which the Construction Noise Management Plan is to apply, and the procedures that will be carried out to ensure compliance with the standard. The objectives of the Construction Noise Management Plan shall be to ensure construction works are:
- (a) Designed and implemented to comply with the requirements of "*NZS6803:1999 Acoustics – Construction Noise*"; and
 - (b) Implemented in accordance with the requirements of Section 16 of the Resource Management Act 1991, so as to adopt the best practical option to ensure the emission of noise from the project site does not exceed a reasonable level.
- 19 In order to achieve the objectives established in Condition 18 above, the Construction Noise Management Plan shall, as a minimum, address the following matters:
- (a) The operating hours for the construction works and any time restrictions on the operation of particular machinery and equipment;
 - (b) Details on the machinery and equipment to be utilised during the construction works, any required mitigation measures associated with the operation of the machinery and equipment;

- (c) Predictions of sound levels from the machinery and equipment to be utilised during the construction works;
 - (d) Details on the noise monitoring programme to be undertaken during the construction works (if necessary);
 - (e) The procedure for the reporting of any exceedances of "*NZS6803:1999 Acoustics – Construction Noise*" to the Group Manager - Environmental Services, South Taranaki District Council; and
 - (f) The procedures for the reporting and logging of noise related complaints, including the need for additional monitoring following the receipt of noise complaints.
- 20 The Construction Noise Management Plan shall be prepared by an appropriately qualified and experienced acoustical consultant.

Operational Noise

- 21 Noise from the operation of the transmission line shall not exceed 45 dBA L_{Aeq} (15 mins) when measured at, or within, the notional boundary of any rural zoned dwelling in existence or authorised by a resource consent or building consent at the date of notice of the decision on the resource consent applications for the Waverley Wind Farm under s114 of the Resource Management Act (excluding those dwellings where the property owner has provided their written approval and where this approval has been provided to the Group Manager – Environmental Services, South Taranaki District Council) or at, or within, the boundary of any residential zoned site.

Except where otherwise expressly provided for, noise shall be measured in accordance with the requirements of "*NZS6801:2008 Measurement of Sound*" and assessed in accordance with the requirements of "*NZS6802:2008 Assessment of Environmental Sound*".

TRAFFIC

- 22 The routes, vehicle types, traffic movements and traffic generation related to the construction, operation and maintenance of the transmission line shall be in general accordance with those described in the Transportation Assessment by Traffic Design Group appended to "*Waverley Wind Farm – Resource Consent Applications and Assessment of Environmental Effects*" dated 14 April 2016.

Construction Traffic Management Plan

- 23 At least 20 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall submit a Construction Traffic Management Plan to the Group Manager - Environmental Services, South Taranaki District Council to certify that the plan meets the objectives in Condition 23(a) to (g). The objectives of the Construction Traffic Management Plan shall be to:
- (a) Ensure all specific legislative requirements (e.g. statutes, regulations and / or bylaws) and consent conditions in relation to construction traffic are adhered to;
 - (b) Encourage a culture of road safety awareness and commitment;
 - (c) Ensure best practice in transport safety;
 - (d) Ensure emergency services are not obstructed;
 - (e) Minimise disruption to the surrounding community, farming operations and rural services;
 - (f) Minimise traffic generation; and
 - (g) Encourage the participation of the surrounding community in maximising safety and minimising disruption.
- 24 In order to achieve the objectives established in Condition 23 above, the Construction Traffic Management Plan shall, as a minimum, address the following matters:
- (a) The construction programme and the associated traffic volumes estimated for the construction of the transmission line;
 - (b) Driver protocols aimed at ensuring safe driving practices and full compliance with the law, including speed limits, appropriate following distances, observing engine braking restrictions, and affording priority to other traffic;
 - (c) The traffic management measures to be implemented at intersections, level crossings, stock crossings and access points to local properties;
 - (d) The timing of construction traffic to minimise disruption to, and potential safety issues, for the operation of school bus services;

- (e) Requirements for the monitoring of construction traffic;
 - (f) Communication arrangements with affected residents, South Taranaki District Council, New Zealand Transport Agency, schools, emergency services and other key stakeholders, including provision of prior notice of traffic arrangements and any road closures; and
 - (g) The ongoing review and evaluation of the contents of the Construction Traffic Management Plan throughout the period of construction works.
- 25 The Construction Traffic Management Plan shall be prepared by a suitably experienced and qualified traffic engineer and in consultation with the New Zealand Transport Agency and the Group Manager – Engineering Services, South Taranaki District Council.
- 26 The consent holder shall distribute copies of the Construction Traffic Management Plan to emergency services and landowners / occupiers with access to the local construction traffic routes.

HEALTH AND SAFETY

- 27 In those areas along the transmission line where the public has access, electric and magnetic fields' strength shall comply with the guidelines for public exposure to electric and magnetic fields as published in 2010 by the International Commission on Non-Ionizing Radiation Protection (ICNIRP).
- 28 All works authorised by this resource consent shall be designed to comply with NZS6869:2004 *"Limits & Measurement Methods of Electromagnetic Noise from High Voltage A.C. Power Systems, 015 to 1000 MHZ"*.

NETWORK UTILITIES

- 29 Prior to the commencement of any construction works over State Highway 3 and the Marton – New Plymouth Railway Line, the consent holder shall install safety nets to ensure that conductor stringing does not adversely affect the safe and efficient utilisation of the state highway and railway network.
- 30 The location and design of the safety nets shall be determined in consultation with the New Zealand Transport Agency and KiwiRail. A copy of the design plans for the safety nets shall be provided to the Group Manager – Environmental Services, South Taranaki District Council prior to the safety nets being erected.

- 31 At least 20 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall submit a Network Utilities Management Plan to the Group Manager - Environmental Services, South Taranaki District Council to certify that the plan meets the objective in Condition 31(a). The Network Utilities Management Plan shall be prepared by the consent holder in consultation with those network utility operators with infrastructure that will be directly affected by the project. The objective of the Network Utilities Management Plan shall be to:
- (a) Ensure that enabling works, design, construction and ongoing operational works associated with the 110 kV transmission line alignment and associated buffer area adequately take account of, and include measures to address the safety, integrity, protection and relocation of existing network utilities, where necessary.
- 32 The purpose of the certification under Condition 31 is for the Group Manager - Environmental Services, South Taranaki District Council to:
- (a) Confirm that the appropriate liaison with infrastructure providers has occurred and that their concerns have been taken into account; and
 - (b) Confirm that the Network Utilities Management Plan meets the requirements of Conditions 33 and 34 below.
- 33 In order to achieve the objectives established in Condition 31 above, the Network Utilities Management Plan shall, as a minimum, address the following matters:
- (a) The methods the consent holder will use to liaise with all infrastructure providers who have existing utilities that are directly affected by, or located in close proximity to the project including the process for:
 - (i) Seeking network utility provider approval of proposed works where their assets are affected;
 - (ii) The process for obtaining any supplementary authorisations (e.g. easements and/or resource consents); and
 - (iii) Protocols for inspection and final approval of works by network utility providers.
 - (b) The methods the consent holder will use to enable infrastructure providers to access existing network utilities for maintenance at all reasonable times, and to access existing network utilities for emergency works at all

times, during which construction and ongoing activities associated with the project are occurring;

- (c) The methods the consent holder will use to ensure that all construction personnel, including contractors, are aware of the presence and location of the various existing network utilities which traverse, or are in close proximity to, the project, and the restrictions in place in relation to those existing network utilities. This shall include plans identifying the locations of the existing network utilities and appropriate physical indicators on the ground showing specific surveyed locations;
- (d) How the consent holder will meet the costs for any project-related works that are required in order to protect, relocate and/or reinstate existing network utilities. Such methods shall be consistent with the provisions of the Electricity Act 1992, the Gas Act 1992 and the Telecommunications Act 2001;
- (e) The methods the consent holder will use to ensure that provision, both physical and legal, is made for future maintenance access to utilities to a standard at least equivalent to that currently existing;
- (f) Measures to be used to accurately identify the location of existing network utilities;
- (g) Measures for the protection, relocation and/or reinstatement of existing network utilities;
- (h) Measures to ensure the continued operation and supply of essential infrastructural services. Such measures shall include, but need not be limited to, a requirement for any new or relocated electrical or gas infrastructure to be made operational prior to the termination of the existing electrical or gas lines;
- (i) Measures to provide for the safe operation of plant and equipment, and the safety of workers, in proximity to existing network utilities;
- (j) Earthworks management procedures (including depth and extent of earthworks and dust management), for earthworks in close proximity to existing network utilities; and
- (k) Emergency management procedures in the event of any emergency involving existing network utilities.

34 The Network Utilities Management Plan shall be implemented so that enabling works, design and construction of the project adequately take account of, and

include measures to address, the safety, integrity, protection, and relocation of existing Network Utilities where necessary. The consent holder shall adhere to the relevant requirements of the Network Utilities Management Plan at all times during any construction works and ongoing works/activities associated with the project.

ARCHAEOLOGY

- 35 At least 20 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall submit an Accidental Discovery Protocol and Management Plan to the Group Manager - Environmental Services, South Taranaki District Council to certify that the plan meets the objectives in Condition 35(a) and (b). The Accidental Discovery Protocol and Management Plan shall be prepared by a suitably experienced and qualified archaeologist and in consultation with Ngaa Rauru Kiiitahi and Heritage New Zealand. The objectives of the Accidental Discovery Protocol and Management Plan shall be to:
- (a) Minimise the effects of construction works on any koiwi, taonga or archaeological features within the alignment of the transmission line consent; and
 - (b) Ensure construction works are designed and implemented in accordance with the requirements of the Heritage New Zealand Pouhere Taonga Act 2014.
- 36 In order to achieve the objectives established in Condition 35 above, the Accidental Discovery Protocol and Management Plan shall, as a minimum, address the following matters:
- (a) Preconstruction protocols that may be carried out;
 - (b) Protocols for notification of relevant parties and site management procedures in the event any koiwi, taonga or archaeological features are uncovered at any time;
 - (c) Contact details for relevant parties;
 - (d) The procedures to be adopted during construction in potentially sensitive locations within the alignment of the transmission line; and
 - (e) Training procedures for all site staff and contractors.

- 37 The requirements of the Accidental Discovery Protocol and Management Plan established in Condition 35 above, shall only apply for those areas within the alignment of transmission line not subject to an archaeological authority obtained under the Heritage New Zealand Pouhere Taonga Act 2014.

Note: If required, the consent holder is responsible for obtaining archaeological authorities under Section 44 of the Heritage New Zealand Pouhere Taonga Act 2014 prior to the commencement of construction works authorised as part of this resource consent.

COMPLAINTS

- 38 The consent holder shall maintain and keep a Complaints Register to record any complaints about construction works and the operation of the transmission line received by the consent holder in relation to traffic, noise, radio reception interference, or any other environmental effects. The register shall record, where this information is available, the following:

- (a) The date, time and duration of the incident that resulted in the complaint;
- (b) The location of the complainant when the incident was detected;
- (c) The possible cause of the incident; and
- (d) Any corrective action taken by the consent holder in response to the complaint, including the timing of the corrective action.

- 39 The Complaints Register shall be available to staff and authorised agents of the South Taranaki District Council and to members of the Consultative Group (established under Resource Consent RML16030.1 for the Waverley Wind Farm) at all reasonable times upon request. Complaints received by the consent holder that may imply non-compliance with the conditions of this resource consent shall be forwarded to the Group Manager - Environmental Services, South Taranaki District Council within 48 hours of the complaint being received.

REVIEW

- 40 Pursuant to Sections 128 to 131 of the Resource Management Act 1991, the South Taranaki District Council may one year after the commencement of this resource consent, and at five yearly intervals thereafter, serve notice on the consent holder of its intention to review any or all of the conditions of this resource consent for any of the following purposes:

- (a) To review the effectiveness of the conditions of this resource consent in avoiding, remedying or mitigating any adverse effects on the environment that may arise from the exercise of this resource consent (in particular, the potential adverse environmental effects in relation to archaeology, noise, earthworks, traffic and roading effects);
- (b) To address any adverse effects on the environment which have arisen as a result of the exercise of this resource consent that were not anticipated at the time of commencement of this resource consent, including addressing any issues arising out of complaints; and
- (c) To review the adequacy of, and necessity for, any of the monitoring programmes or management plans that are part of the conditions of this resource consent.

CHARGES

- 41 The consent holder shall pay to the South Taranaki District Council:
- (a) All required administration charges fixed by the South Taranaki District Council pursuant to Section 36 of the Resource Management Act 1991 in relation to the administration, monitoring and inspection of this resource consent; and
 - (b) All other charges authorised by regulations.