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***WEL Networks Limited
WEL Wind Park –
Te Hauhiko O Wharauoa
Resource Consent Application***

*14 July 2007
Reference 444D63*

**Application for Resource Consent under Section 88
of the Resource Management Act 1991**

To: **Waikato District Council**

WEL Networks Limited (WEL) applies for the resource consent described below:

1. The names and addresses of the owners and occupiers of land to which the application relates are as follows:

Owner	Legal Description	Title Area	Turbines	Other
JE & MJC Vanhouette, DM Taylor, Tomkins Wake Trustees Ltd	Sec 5 Blk XI Karioi SD (SO 12238)	310.15ha	T11, T12, T13, T14, T27	Internal Road, Pot. Soil Disposal Site, Pot. Borrow Area
“	Sec 2 Blk XI Karioi SD (SO 8540)	213.67ha	T3, T5, T6, T7, T8, T9, T10, T23, T25, T26	Internal Road, Pot. Soil Disposal Sites, Meteorological masts
“	Pt Sec 1 Blk VII Karioi SD (SO 12305)	368.92ha	T16, T17, T18, T19, T20, T21	Internal Road, Pot. Soil Disposal Site
“	Sec 6 Blk XI Karioi SD (SA34A/992)	50.58ha		
JA & MF Greenwood	Allot 134 Whaingaroa Parish (SO 14724)	158.43ha	½ of T28	Internal Road
“	Allot 114 Whaingaroa Parish (SO 14724)	91.22ha	T29	Internal Road
TAH Jowsey	Sec 23 Blk X Karioi SD (SO 37272) CT 50B/369	105.77ha		Access Road
“	Sec 12 Blk XI Karioi SD (SO 37272)	265.06ha	T1 & T2	Access Road, Internal Road, Work & Storage Compound, Pot. Soil Disposal Site, Proposed Hardstand and crushing area
“	Sec 13 Blk XI Karioi SD (SO 37272)	111.04ha	T4	Access Road, Internal Road, Pot. Borrow Area
“	Lot 5 DPS 90684 CT 71B/348	94.24 ha		Access Road
“	Lot 4 DPS 90684 CT 71B/349	4.98 ha		Access Road, Concrete Batching Plant
ZT & RJ Jowsey	Lot 3 DPS 90684 (SA71B/350)	1.02 ha		Quarry Entrance
TA Clifford	Lot 3 DP 309860	638.06ha	T15, T24 and ½ of T28	Internal Road, Pot. Soil Disposal Site, Pot. Borrow Area
AG & DF Buchanan	Sec 26 Blk X Karioi SD CT 32B/741	406.68ha		Access Road
“	Sec 19 Blk X Karioi SD (SA32B/741)	1.05ha		Minor public road realignment (Minor shape corrections to Plateau Road may encroach onto this land)

GB & PC Bull	Sec 22 Blk X Karioi SD CT 49C/537	72.93ha		Minor public road realignment (Minor shape corrections to Plateau Road may encroach onto this land)
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Note: The Te Mata Quarry is located on Lot 2 DPS 90684. The extension of the quarry within this lot to supply construction materials is the subject of separate consents.

Anecdotal

Certificates of Title for the private land listed above are attached as Appendix K. WEL and the private landowners have entered into arrangements to use parts of the above land for wind farm purposes.

2. The general location to which this application relates is land on the Wharaurua plateau, 10km south-east of Raglan, being legally described above. The location is further described (including a location map) in section 4.1 of the Assessment of Environmental Effects (AEE) attached to this application.
3. The type of resource consent sought is a **land use consent**
4. In accordance with section 125 of the Resource Management Act 1991, the applicant seeks a term of ten years from the date of commencement to give effect to the resource consents applied for.
5. A description of the activities to which the application relates is set out below:
 - (a) The erection, operation and maintenance of up to 28 wind turbines for the generation of electricity, in the general positions shown on drawings attached to the application.
 - (b) Erection and operation of an Operation and Maintenance Building.
 - (c) Installation of underground cables to connect the wind farm to the transmission system.
 - (d) Erection, operation and maintenance of up to 3 meteorological masts.
 - (e) Excavation and use of basecourse material.
 - (f) Operation of a mobile crushing plant.
 - (g) Operation of a concrete batching plant (at the Te Mata Quarry).
 - (h) Land disturbance within the areas generally shown on the plans and in particular:
 - (i) Access formation to turbine sites.
 - (ii) Establishing flat platforms at each turbine site.
 - (iii) Placement of fill.
 - (iv) Establishing platforms for temporary laydown areas, an operation and maintenance building, and a substation.
 - (v) Trenching and placement of cables.
 - (i) Maintenance and replacement of all works, equipment and facilities as required during the life of the wind farm.

A more detailed description of those activities and an assessment of their effects on the environment are included in the AEE and annexures thereto.

Not included in this application is:

- Any high voltage overhead electricity lines
- The electricity substation located near the wind farm

These elements will be included in a subsequent Notice of Requirement for a designation should this Application for resource consent be granted

6. The following additional consents are needed for the proposed activity:

Land use consents and water permits from Environment Waikato for:

- Earthworks
- Earthworks in a high-risk erosion area
- Large scale disposal of overburden to ground
- Stormwater diversion
- Stream diversion.

7. The attached AEE and annexures thereto form part of this application and provide a description of any effects on the environment in accordance with the Fourth Schedule to the Resource Management Act 1991.

Address for service of applicant:

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Julian Elder
Chief Executive Officer
WEL Networks Limited
14 July 2007

Annexure: A description of the proposal for which the above resource consents are sought, an assessment of effects on the environment in accordance with the Fourth Schedule of the Act, and annexures thereto being part of and comprising detailed reports on matters referred to in the assessment of effects.

Table of Contents

Section	Page
1. Project Proponent	1
1.1 WEL Networks Limited	1
2. Executive Summary	2
2.1 Indicative Numbers	2
2.2 The Proposal	3
2.3 Project Programme	5
2.4 Assessment of Effects	5
2.5 Positive Outcomes	6
2.6 Why New Zealand Needs Wind Power	7
2.7 Cumulative Effects	7
3. Background to the Development	15
3.1 Introduction	15
3.2 Alternative Energy Development Options	15
3.3 Site Identification	16
4. Site Description	17
4.1 Location	17
4.2 Te Uku and District	18
4.3 Ecology	18
4.4 Landscape	19
4.5 Land Tenure and Land Use	19
5. Physical Outcomes	20
5.1 Project Overview	20
5.2 Turbine Numbering	20
5.3 Wind Farm Site Layout	21
5.4 Access Road	21
5.5 Meteorological Masts	21
5.6 Electrical Cables	22
5.7 Operations & Maintenance Facility	22
5.8 Services	23
5.9 Substation	23
5.10 Transmission Line	24
5.11 Viewing Platform	24
5.12 Alternative Options	25
6. Consent Attributes	26
6.1 Turbine Contingency Zone	26
6.2 Indicative Turbine	27
6.3 Consent Envelope	27
6.4 Te Mata Quarry	28
6.5 Public Access	29
6.6 Decommissioning	29
7. Construction Outline	30
7.1 Overview	30
7.2 Components and Facilities	31
7.3 Earthworks	34

8.	Visual	39
8.1	Overview	39
8.2	Visual and Landscape Assessment	39
8.3	Assessment Tools	40
8.4	Key Findings	40
8.5	Issues and Effects	41
8.6	Matters of National Importance	42
8.7	Other Matters	42
8.8	Cumulative Effects	43
8.9	Avoidance, Mitigation and Rehabilitation	43
8.10	Summary of Main Findings	45
9.	Noise	46
9.1	Overview	46
9.2	District Plan and New Zealand Standards	46
9.3	Predicted Noise Levels	47
9.4	Traffic Noise	48
9.5	Subsonic Noise	49
9.6	Cumulative Effects	49
10.	Ecology	50
10.1	Overview	50
10.2	Effects on Vegetation	50
10.3	Effects on Birds	51
10.4	Effects on Bats	52
10.5	Aquatic Biota and other Fauna	52
10.6	Wetlands	53
10.7	Avoidance, Remediation or Mitigation of Effects	53
11.	Construction	55
11.1	Overview	55
11.2	Earthworks	55
11.3	Fill Disposal	57
11.4	Borrow Areas	57
11.5	Stormwater Control	58
11.6	Sediment and Erosion Control	58
11.7	Concrete Batching Plant	59
11.8	Summary of Issues and Effects	60
11.9	Impacts Avoided or Minimised	62
11.10	Other Effects	62
12.	Road Traffic	63
12.1	Overview	63
12.2	Site Access	63
12.3	Over-Dimension Traffic	64
12.4	Traffic Safety	64
12.5	Summary of Effects	65
12.6	Conclusions and Recommendations	66
13.	Air Traffic	67
13.1	Civil Aviation Authority Determination	67
13.2	Local Airstrip	67
13.3	Impact on Hamilton International Airport	68

14. Archaeology	69
14.1 Overview	69
14.2 Conclusions and Recommendations	69
15. Communications	70
15.1 Background and Summary	70
15.2 Television Reception	70
15.3 Microwave Links	70
15.4 Air Navigation Services	71
15.5 Radio-Communication Services	71
15.6 Summary	71
16. Cultural	72
16.1 Overview	72
16.2 Conclusion and Recommendations	72
16.3 Wind Park Opening	73
16.4 Summary of Issues and Effects	73
17. Environmental Management Plan	74
17.1 Mitigation of Environmental Effects	74
17.2 Purpose of an Environmental Management Plan	74
17.3 EMP Part 1: Management of Construction Effects	74
17.4 EMP Part 2: Wind Farm Operation	75
18. District Plan Rules	79
18.1 Operative and Proposed District Plans	79
18.2 Wind turbines	80
18.3 Policy Areas	81
18.4 O&M Building	82
18.5 Electrical Lines	82
18.6 Meteorological masts	83
18.7 Earthworks	84
18.8 Vegetation Clearance	85
18.9 Noise	85
18.10 Summary	85
19. Planning Assessment	87
19.1 Overview	87
19.2 Objectives and Policies	87
19.3 RMA Part 2 Considerations	91
19.4 Regional Planning Instruments	92
19.5 Other Matters	93
19.6 Summary	93
20. Consultation	95
20.1 Background	95
20.2 Initial Key Stakeholders	95
20.3 Consultation with Residents	96
20.4 Consultation with Iwi	97
20.5 Consultation about Flora and Fauna	97
20.6 Consultation about Equipment Transport and Traffic Issues	97
20.7 Consultation with RMA Consent Authorities	98
20.8 Consultation about Air Traffic	98
21. Proposed District Consent Conditions	99

Appendices

Appendix A

Visual & Landscape Assessment – Mansergh Graham Landscape Architects

Appendix B

Assessment of Noise Effects – Hegley Acoustics

Appendix C

Ecological Assessment – Kessels & Associates

Appendix D

Civil Engineering Assessment – Bloxam Burnett & Olliver

Appendix E

Traffic Impact Assessment – Bloxam Burnett & Olliver

Appendix F

Radio-Communications Effects – Broadcast Communications (BCL)

Appendix G

Assessment of Archaeological Issues – CFG Heritage

Appendix H

Cultural Heritage Assessment Report – Nga Uri a Mahanga Trust

Appendix I

Geotechnical Investigations Report – Mark T Mitchell Ltd

Appendix J

Consultation Report – Bloxam Burnett & Olliver

Appendix K

Certificates of Title

Appendix L

Miscellaneous

Glossary

Central Laydown Area	refers to a centralised area that would be required during construction to provide a secure flat area for delivery and storage of turbine parts prior to finalisation of platforms, and to receive tower and turbine parts. The central laydown area is a component of the work and storage compound.
Concrete Batching Plant	refers to a purpose built trailer mounted unit that will be located and operated at the Te Mata Quarry. Mixing concrete locally at the Te Mata Quarry will avoid about 4000 truckloads of concrete being transported over the public road system.
Consent Envelope	refers to an approach chosen by the applicant to maintain flexibility in choosing a final turbine design. For the purpose of this consent the physical dimensions of turbines can be varied up to the maximum parameters as follows: <ul style="list-style-type: none">➤ Number of turbines 28➤ Tower height 90 metres➤ Rotor Diameter 100 metres➤ Turbine height 137 metres➤ Number of meteorological masts 3➤ Height of meteorological masts 80 metres
Indicative Wind Turbine	refers to a standard Vestas V90 wind turbine, comprised of an 80m high tower, a 90m diameter rotor, a maximum height of 127m and with a maximum output of 3 megawatts (MW).
Meteorological Mast	refers to a structure consisting of an aluminium pole that is fixed to the ground by guy wires that has meteorological devices attached to it for the measurement of wind speed and wind direction, plus air pressure and temperature. This structure can also be called an anemometer, wind mast or wind measurement system.
Mobile Crushing Plant	refers to a purpose built trailer mounted unit that will be used to process on-site aggregates for roading construction.
Nacelle	refers to the structure which houses all of the generating components of a wind turbine, such as the gearbox, drive train, etc., and which is mounted at the top of the turbine tower.
Turbine Contingency Zone (TCZ)	refers to defined areas within which the turbines may be finally located. The TCZ consists of a 150 metre radius circle around each proposed wind turbine location, but does not encroach into neighbouring properties or bush areas.
Turbine Platform	refers to an area of typically 50m x 50m that is required to provide for both the turbine concrete foundations and the working area for the tower erection crane and associated materials.
Turbine Tower Height	refers to the height of the tower excluding the nacelle or hub. The tower height of an <i>indicative wind turbine</i> (Vestas V90) is 80m, however the proposal is seeking a consent envelope under which turbine towers can

be up to 90m high. It is noted that sometimes the tower height is measured from the foundation to the hub axis, however, for the purpose of this consent application the tower height is measured from the foundation to the top of the tower where the nacelle is attached.

Total Turbine Height

refers to the overall turbine height, measured from the foundation to the top of the vertically extended blade tip. The total turbine height of an *indicative wind turbine* (Vestas V90) is 127m (consisting of an 80m tower, a 3m nacelle including hub, and a 44m blade). However, the proposal is seeking a consent envelope under which the total turbine height can be up to 137m.

Work and Storage Compound

refers to a facility that will serve multiple purposes, including to provide for a mobile crushing plant, a central laydown area as well as site facilities such as a site office, smoko room, workers' toilets etc.