



Biala Wind Farm Environmental Management Strategy

Final

Developments Biala



October 2018

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Biala Wind Farm

Environmental Management Strategy

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Environmental Resources Management Australia Pty Ltd

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ABBREVIATIONS

Abbreviation	Description
BC Act	NSW <i>Biodiversity Conservation Act 2017</i>
BJCE	Beijing Jingneng Clean Energy Company Limited
BoP	Balance of Plant
CCC	Community Consultative Committee
CoC	Conditions of Consent
DP&E	NSW Department of Planning and Environment
DPI	NSW Department of Primary Industries
EPA	NSW Environment Protection Agency
EPL	Environment Protection Licence
EPBC Act	Commonwealth <i>Environment Protection and Biodiversity Conservation Act 1999</i>
EMS	Environmental Management Strategy
EP&A Act	NSW <i>Environmental Planning and Assessment Act 1979</i>
ERM	Environmental Resources Management Australia Pty Ltd
LGA	Local government area
LLS Act	NSW <i>Local Land Services Act 2013</i>
NGRWF	New Gullen Range Wind Farm Pty Ltd
NSW	New South Wales
NV Act	NSW <i>Native Vegetation Act 2003</i>
POEO Act	NSW <i>Protection of the Environment Operations Act 1997</i>
PIRMP	Pollution Incident Response Management Plan
RMS	NSW Roads and Maritime Service
SSD	State Significant Development
TSC Act	NSW <i>Threatened Species Conservation Act 1995</i>
WM Act	NSW <i>Water Management Act 2000</i>

1 INTRODUCTION

1.1 OVERVIEW

Environmental Resources Management Australia Pty Ltd (ERM) was engaged by Newtricity Developments Biala Pty Ltd (Developments Biala) to prepare an Environmental Management Strategy (EMS) for the Biala Wind Farm Project (hereinafter referred to as the Project).

Developments Biala was acquired by a subsidiary of Beijing Jingneng Clean Energy Company Limited (BJCE) in September 2017. BJCE owns the Biala Wind Farm through its ownership of Developments Biala and owns 75% of New Gullen Range Wind Farm Pty Ltd (NGRWF), the owners of the Gullen Range Wind Farm including the Substation.

1.2 BACKGROUND

The Project involves the construction and operation of a wind farm in locality of Biala in the Southern Tablelands regions of New South Wales. The Project is located approximately 14.5 km south-west of Crookwell and 8.5 km east of Biala in the Upper Lachlan local government area (LGA).

The Biala Wind Farm consists of 31 wind turbine generators (WTGs) with an indicative generation capacity of 80 MW to 112 MW. Support infrastructure includes an electrical reticulation network, internal access roads and permanent operations and maintenance facilities together with a temporary concrete batching plant, site offices and equipment storage area during construction period. A compound with electrical switching and grid compensation equipment may be installed at the site of the approved substation.

The Project Area covers approximately 1,936 hectares (ha). Developments Biala has entered into commercial lease agreements with four landholders hosting Project infrastructure, which encompasses 37 individual land parcels.

The Project was approved via a State Significant Development (SSD) consent granted on 12 April 2017 (ref SSD 6039). The Conditions of Consent (CoC) are provided in *Annex A*. Schedule 4, Condition 1 of these conditions requires the development of this EMS.

The development consent for the wind farm does not include the infrastructure required to connect to the electricity network. A Development Application was submitted to Upper Lachlan Shire Council in November 2017 for an underground 33kV electricity connection to the existing Gullen Range Wind and Solar Farm substation. An extension to the Gullen Range Wind and Solar Farm substation is part of this application.

1.2.1 *Revised Project Layout*

Since Project Approval, the Project layout has been updated to optimise the wind resource. Micro-siting of the WTGs has been undertaken in accordance with Schedule 2, Condition 7. *Figure 1.1* shows the locations of the WTGs assessed in the EIS and their new locations. For further details of compliance with micro-siting restrictions in the CoC, refer to the Biodiversity Management Plan (*Annex B*).

1.2.2 *Contractual Structure for Project Construction*

The Project will be constructed through two main contracts:

1. The manufacture, supply, delivery, erection and commissioning of the WTG's (the WTG supply contract);
2. The balance of plant contract (BoP contract); and
3. Other minor contracts

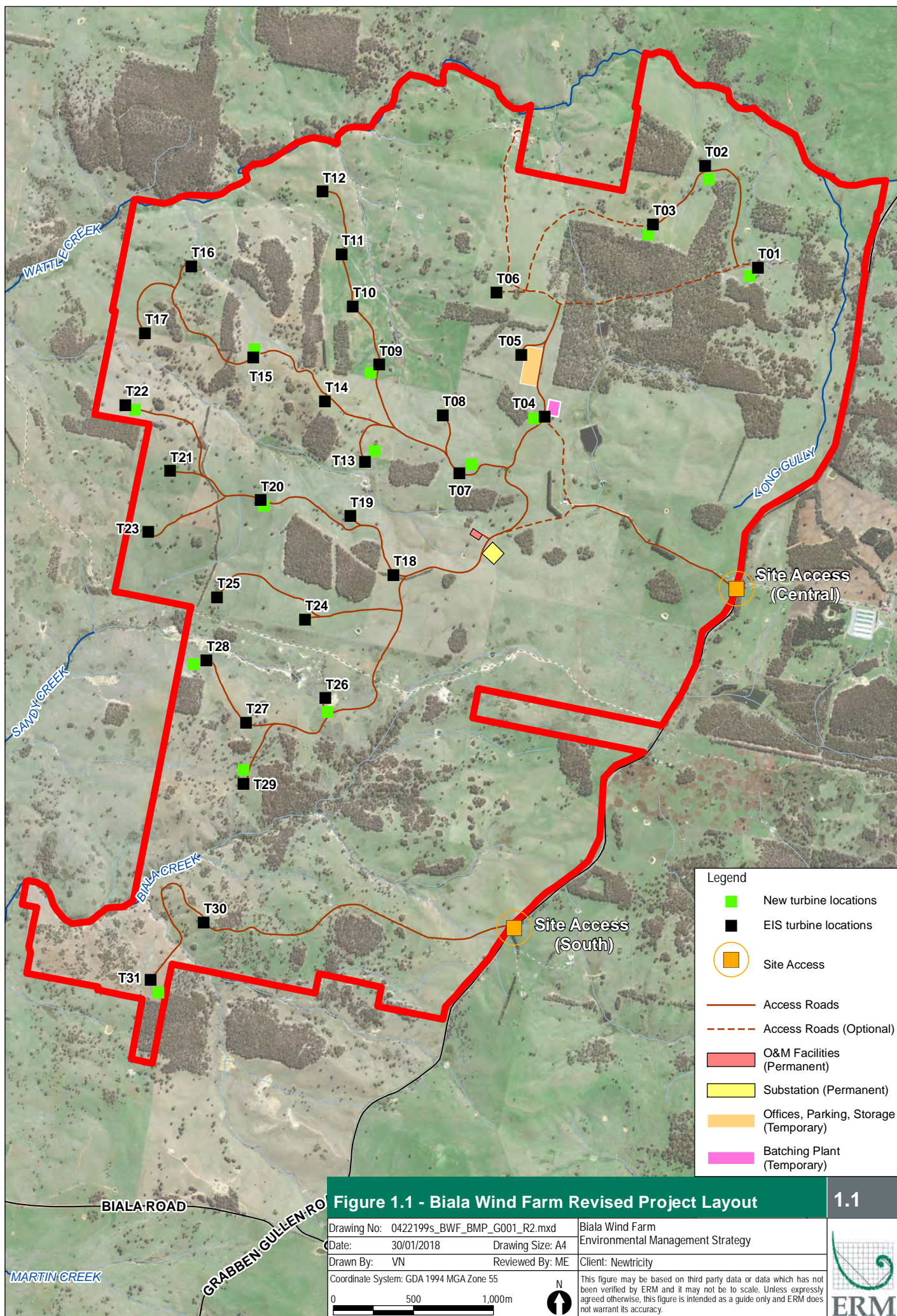
The Project will be operated through a warranty and maintenance agreement (the WOM contract) with the WTG supply contractor.

Developments Biala will maintain a full-time site presence during construction and will have a contract with an Owners Engineer who will provide technical and compliance advice throughout construction.

The BoP contractor will be responsible for the design and construction of everything but the WTGs, including both civil and electrical works. The WTG supply contractor will be responsible for the delivery, installation and commissioning of the turbines.

Both construction contractors will have an environmental policy in place which will be adhered to during construction. The requirements of the Project Approval, this EMS and associated management plans will be incorporated into the construction contracts, such that each contractor is contractually bound to comply. If inconsistencies between the Project Approval, EMS or associated management plans occur with Supply Contracts the commitments of the Project Approval will prevail.

Section 5 provides further detail on the Project environmental management structure and roles and responsibilities.



1.2.3

Project Construction Schedule

The construction works will extend over a period of up to 18 months with a breakdown of construction phasing provided in *Table 1.1*. Commencement of site works will occur from the second quarter of 2018.

Some upgrade works for public roads are also required outside of the Project Area and subject to approvals of the relevant road authorities. Those works are not detailed in this EMS, as they are subject to separate approval by the NSW Roads and Maritime Service (RMS) and Upper Lachlan Shire Council.

Table 1.1 *Phases of Project Implementation*

TIME		2018				2019	
ACTIVITY	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Pre-construction Phase							
Gain all pre-construction approvals	X	X	X				
Install Met Masts		X	X				
Construction Phase							
Site entry upgrade				X			
Local road upgrades		X	X				
Site establishment, compounds and amenities				X			
Access tracks, clearing and earthworks				X	X		
Prepare turbine hardstands and turbine footings				X	X	X	
Batch Plant operation				X	X	X	
Install 33kV Cabling					X	X	
Install 33kV UG Line					X	X	
Deliver turbine components					X	X	
Erect towers, nacelles and rotors					X	X	
Substation extension					X	X	
Install O&M Building						X	
De-mobilise site							X
Restore site including on-site screen planting						X	X

1.3

PURPOSE

This EMS for the Biala Wind Farm has been developed to meet the requirements of the Project Approval, specifically CoC Schedule 4, and in accordance with the commitments in the Biala Wind Farm Environmental Impact Statement (EIS) (ERM, 2015). In accordance with CoC Schedule 4, Condition 1 prior to the commencement of construction, Developments Biala must prepare an EMS for the Project to the satisfaction of the Secretary of the NSW Department of Planning and Environment (DP&E).

CoC Schedule 2, Condition 2 requires that in addition to meeting the specific environmental performance criteria established under the consent, Developments Biala must implement all reasonable and feasible measures to prevent and/or minimise any material harm to the environment that may result from the construction, operation, or decommissioning of the Project.

This EMS and associated Management Plans and Procedures (refer to *Section 5*) will form the basis of the environmental management system for the Project. Implementation of the system by Developments Biala and its contractors will fulfil the environmental requirements of the CoC, appropriately manage environmental impacts, and track compliance and performance.

1.4

SCOPE

This EMS has been prepared for the construction and operational components of the Project only. It will be updated to incorporate the decommissioning aspects of the Project within 5 years of proposed decommissioning.

The following definitions of the Project development phases are provided in the CoC:

- **Pre-construction minor works** - Includes the following activities:
 - building/road dilapidation surveys;
 - investigative drilling, excavation or salvage;
 - minor clearing or translocation of native vegetation;
 - establishing temporary site office (in locations meeting the criteria identified in the CoC);
 - installation of environmental impact mitigation measures, fencing, enabling works; and
 - minor access roads and minor adjustments to services/utilities, etc.
- **Construction** - The construction of the development, including but not limited to the construction of wind turbines, ancillary infrastructure and road upgrades (excludes pre-construction minor works);
- **Operation** - The operation of the development, but does not include commissioning trials of equipment or use of temporary facilities; and
- **Decommissioning** - The removal of wind turbines and any associated above ground infrastructure.

The EMS:

- has been prepared using the *Guideline for the Preparation of Environmental Management Plans* (Department of Infrastructure, Planning and Natural Resources, 2004) (EMP Guidelines) and AS/NZS ISO 14001:2004 *Environmental Management Systems – requirements with guidance for use’ as a guide in its preparation*;

- identifies the statutory approvals that apply to the Project (refer to *Section 2*);
- describes the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the Project (refer to *Section 3*);
- describes the procedures that would be implemented to keep the local community and relevant agencies informed about the environmental performance of the Project, including complaints management (refer to *Sections 4 and 6*);
- includes the supporting Management Plans and Procedures required under the CoC (refer to *Annexures*); and
- a clear plan depicting all the monitoring to be carried out in relation to the development (refer to *Section 6*).

1.5 STRUCTURE OF THIS EMS

This document has been structured to meet the requirements of CoC Schedule 4, Condition 1. *Table 1.2* demonstrates how the EMS meets these requirements.

Table 1.2 Document Structure

CoC	Requirement	Location in EMS
Schedule 4		
1 (a)	Provide the strategic framework for environmental management for the development	All sections
1 (b)	Identify the statutory approvals that apply to the development	Section 2
1 (c)	Describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the development	Section 3
1 (d)	Describe the procedures that would be implemented to: <ul style="list-style-type: none"> • keep the local community and relevant agencies informed about the operation and environmental performance of the development • receive, handle, respond to, and record complaints • resolve any disputes that may arise • respond to any non-compliance • respond to emergencies 	Sections 4 and 6
1 (e)	Include: <ul style="list-style-type: none"> • copies of any strategies, plans and programs approved under the conditions of this consent • a clear plan depicting all the monitoring to be carried out in relation to the development, including a table summarising all of the monitoring and reporting obligations under the conditions of this consent 	Sections 5, 6 and 7

Biala Wind Farm is a major project and was determined a SSD in accordance with Clause 20, Schedule 1 of the *State Environmental Planning Policy (State and Regional Development) 2011* and assessed under Part 4 of the *NSW Environmental Planning and Assessment Act 1979* (EP&A Act). The EP&A Act integrates the planning and assessment regime that requires approval from the Minister for Planning and incorporates approvals and authorisation required under other NSW legislation. The Project was assessed by the Planning and Assessment Commission subject to the CoC (*Annex A*).

The *Commonwealth Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) provides for a Commonwealth assessment and approval of proposals that have a significant impact on ‘matters of national environmental significance’. An EPBC referral was made in respect of the Project and it was confirmed on 6 May 2015 that the Biala Wind Farm is “Not a Controlled Action” and hence no Commonwealth approval in accordance with the EPBC Act is required.

The Project is a scheduled activity under the *NSW Protection of the Environment Operations Act 1997* (POEO Act) and as such requires an Environment Protection Licence (EPL) for construction and operation. An application for an EPL will be made to the NSW Environment Protection Agency (EPA) by Developments Biala prior to commencement of construction.

A summary of legislative requirements and associated approvals / permits and licences that relate to the Project is provided in *Table 2.1*.

Table 2.1 *Summary of Relevant Legislation Requirements*

Legislation	Description	Application to the Project
Commonwealth		
<i>Environment Protection and Biodiversity Conservation Act 1999</i>	Applicable to impacts on matters of national environmental significance	EPBC Referral 2015/7459. Determined as “Not a Controlled Action” under the EPBC Act, therefore no approval required.
New South Wales		
<i>Environmental Planning and Assessment Act 1979</i>	The Biala Wind Farm was approved by the PAC under EP&A Act. Any future modifications to the Project Approval would take into consideration the matters referred to in Section 79C(1) of the EP&A Act, as relevant. Developments Biala may request the Minister to modify the Minister’s approval for a project.	Planning approval already gained under Part 4 of the Act. CoC are required to be complied with for the Project. Modifications should only be undertaken after the completion and approval of appropriate Environmental Assessment (EA) or other documentation agreed to by DP&E, prior to construction of the modified/varied Project component(s).

Legislation	Description	Application to the Project
<i>Protection of the Environment Operations Act 1997</i>	The Minister's approval for a modification is not required if the Project as modified will be consistent with the existing approval.	Where minor modifications can be endorsed by the BoP Compliance Manager through consistency assessment, it is recommended that DP&E is also advised to confirm the need for their approval.
	An EPL is required under Schedule 1 of the POEO Act for wind farm electricity generating works.	An EPL will be sought in accordance with the POEO Act.
	A Pollution Incident Response Management Plan (PIRMP) will also be required.	A PIRMP will be prepared and implemented prior to the commencement of operations (<i>Annex N</i>).
<i>Contaminated Land Management Act 1997</i>	Duty to notify the EPA of any actual or potential environmental harm.	Developments Biala to notify EPA of any actual or potential material environmental harm during construction or operations.
	Establishes a process for investigation and (where appropriate) remediation of land where contamination presents a significant risk of harm to human health or some other aspect of the environment.	The Act should be addressed for construction activities. There is no previous history of contamination and the PA is considered low risk. Disposal of waste associated with unexpected finds, such as contamination, should be undertaken in accordance with the Waste Management and Classification Procedure .
<i>Water Management Act 2000 (WM Act)</i>	Permits and approvals required for water extraction from natural waterways. Controlled Activity permits required for works within sensitive waterway environments.	A water access licence is required under Chapter 3 of the WM Act to authorise the taking of water from a water source. The Project is exempt under Section 89(J) of the EP&A Act for the need to obtain a water use approval under Section 89, a water management work approval under Section 90 or an activity approval under Section 91 of the WM Act.
<i>Water Act 1912</i>	Potential need for a Bore Licence when dewatering required from excavations under Part 5 of the Water Act. This will depend on Project activities and potential interaction with groundwater.	Water sources used on site are to be determined, and if applicable, permits will be applied for.
	Use of water supply from surface waters from a specific property in other areas of the Project site may require licensing	Water sources used on site are to be determined, and if applicable, permits will be applied for.

Legislation	Description	Application to the Project
<i>Fisheries Management Act 1994</i>	<i>The Fisheries Management Act 1994</i> provides for the conservation, protection and management of fisheries, aquatic systems and habitats in NSW. Similar to the TSC Act, it lists threatened species, populations and ecological communities of fish and marine vegetation.	Project exempt under Section 89J(1) of the EP&A Act. DPI to be advised and consulted where there is potential restriction of fish passage. The Biodiversity Management Plan identifies best practice DPI guidelines to utilize in relation to potential creek/river crossings within the Project Area.
<i>Heritage Act 1977</i>	Approval under Part 4 or an excavation permit under Section 139 from the NSW Heritage Office.	Project exempt under Section 89J(1) of the EP&A Act. However, requirements of the Heritage Act to be inducted to construction personnel and NSW Heritage Office will be advised and consulted as required.
<i>National Park and Wildlife Act 1974</i>	Permit under Section 87 (investigation of Aboriginal objects) or a consent under Section 90 (destruction of aboriginal objects) from the National Parks and Wildlife Service.	Project exempt under Section 89(J) of the EP&A Act in relation to identified impacts. CoC require a Aboriginal Cultural Heritage Management Plan to be prepared and implemented.
<i>Dangerous Goods Act (WorkCover – storage licence) (EPA- transport licence)</i>	Relates to storage, handling and licensing of storage and/or transport of prescribed quantities of dangerous goods.	Construction contractors to obtain licenses where storage of dangerous goods for construction is in licensable quantities.
<i>Roads Act 1993</i>	Section 138 consent required for erection of a structure, or carrying out of work in, on or over a public road or digging up or disturbance of the surface of the road.	A Traffic Management Plan will be prepared and implemented in consultation with the RMS, Upper Lachlan Shire Council and Police, to obtain required approvals.
<i>Threatened Species Conservation Act 1995</i>	The <i>Threatened Species Conservation Act 1995</i> (TSC Act) was repealed on the 25 August 2017 with the establishment of the <i>Biodiversity Conservation Act</i> (2016) (BC Act) and the amended <i>Local Land Services Act</i> (2013) (LLS Act).	The EIA for the Project was prepared and approved under the regulations of the TSC Act. CoC for the Project relating to biodiversity have been issued according to matters listed within the TSC Act. The Biodiversity Management Plan has been prepared according to the same legislative framework and regulations.
<i>Threatened Species Conservation (Biodiversity Banking) Regulation 2008</i>	The Biodiversity Banking Scheme (BioBanking) is a voluntary scheme established under Part 7A of the TSC Act in 2008 and supported by the <i>Threatened Species Conservation (Biodiversity Banking) Regulation 2008</i> . BioBanking enables development proponents to offset the residual impacts of their proposed project by purchasing and retiring	<i>The Threatened Species Conservation (Biodiversity Banking) Regulation 2008</i> was repealed on the 25 August 2017 with the establishment of the BC Act. A standalone Biodiversity Offsets Strategy would be prepared by the Proponent detailing the strategy as to how sufficient offsets would be acquired for the clearing of vegetation within the Project Area according to the requirements set out in the CoC.

Legislation	Description	Application to the Project
<i>NSW Biodiversity Offsets Policy For Major Projects</i>	<p>BioBanking Credits from a BioBank Site.</p> <p>The NSW Biodiversity Offset Policy for Major Projects outlines a standardised method for assessing impacts of major projects and determining offset requirements.</p>	<p>The <i>NSW Biodiversity Offsets Policy For Major Projects</i> was repealed on the 25 August 2017 with the establishment of the BC Act and the BAM methodology.</p> <p>A standalone Biodiversity Offsets Strategy would be prepared by the Proponent detailing a strategy on how they would determine the biodiversity credits required for the Project under new legislation.</p>
<i>Biosecurity Act 2015</i>	<p>Identifies, classifies and guides the control of noxious weeds in NSW. The Act defines the roles of government, councils, private landholders and public authorities in the management of noxious weeds. It also determines control actions for the various noxious weeds, according to their potential to cause harm to our local environment.</p>	<p>Noxious weeds, where identified on site, must be prevented from spreading and their numbers and distribution reduced. The Biodiversity Management Plan identifies a range of avoidance, management and mitigation measures to control noxious weeds.</p>
<i>Native Vegetation Act 2003</i>	<p>The <i>Native Vegetation Act 2003</i> (NV Act) aims to provide flexibility and incentives to manage native vegetation, and broad scale clearing (unless it improves or maintains environmental outcomes) and encourage healthy and productive landscapes.</p>	<p>The NV Act was repealed on the 25 August 2017 with the establishment of the BC Act and the amended LLS Act.</p> <p>Clause 12 of the NV Act states: <i>Native vegetation must not be cleared except in accordance with: (a) a development consent granted in accordance with this Act</i></p> <p>Development consent in accordance with the NV Act has been provided for the Project. A number of CoC have also been set out to regulate and minimise the amount of native vegetation clearing for the Project. The Biodiversity Management Plan identifies a range of avoidance, management and mitigation measures to minimise the amount of vegetation clearance within the Project Area.</p>

Legislation	Description	Application to the Project
<i>Biodiversity Conservation Act 2017</i>	The NSW legislation regarding biodiversity transitioned on 25 August 2017 with the commencement of the BC Act. The BC Act is now required to be considered regarding biodiversity impact assessment for future development applications.	See above for why this Act has not been considered further within the Biodiversity Management Plan .
<i>Local Land Services Act 2013</i>	The NSW legislation regarding regulation of native vegetation clearing, within land that has been zoned Rural, transitioned on 25 August 2017 with the commencement of the amended LLS Act.	See above for why this Act has not been considered further within the Biodiversity Management Plan .
<i>Waste Avoidance and Resource Recovery Act 2001</i>	To reduce environmental harm and provide for reduction in waste generation in line with ESD principles.	The objective of the Act will be addressed in the Waste Management and Classification Procedure .
<i>National Greenhouse and Energy Reporting Act 2007</i>	Systems for reporting energy consumption and production data, greenhouse emissions, abatement actions.	Developments Biala to determine NGERs reporting requirements for energised facility.

Environmental management during construction and operation is to be governed by this EMS and associated Management Plans and Procedures (refer to *Section 5*), which have been developed to fulfil the obligations of the CoC and objectives set out within this EMS.

3.1 MANAGEMENT STRUCTURE

The Project management structure is illustrated in *Figure 3.1* and *Figure 3.2*, which show the relevant Project interfaces and organisation chart respectively.

Figure 3.1 *Project Interfaces*

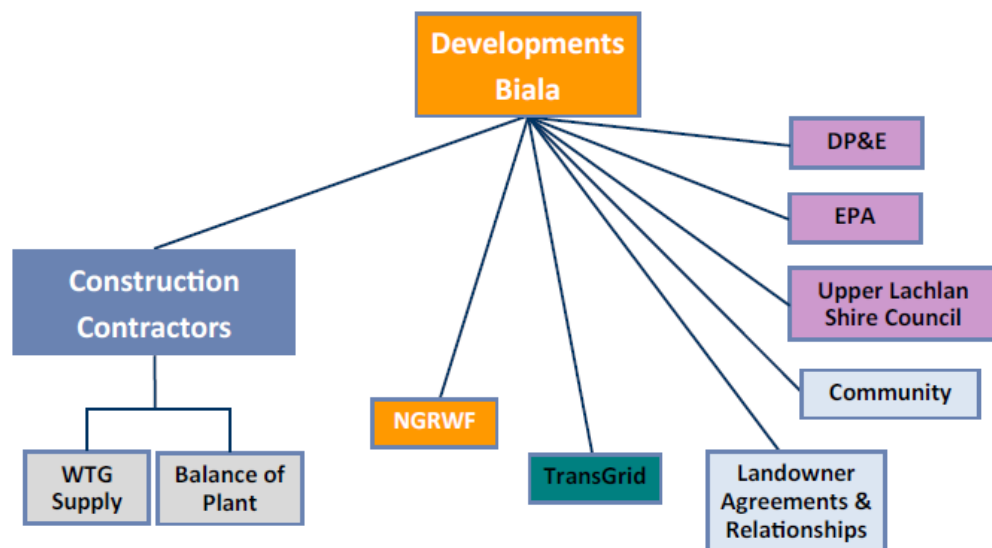
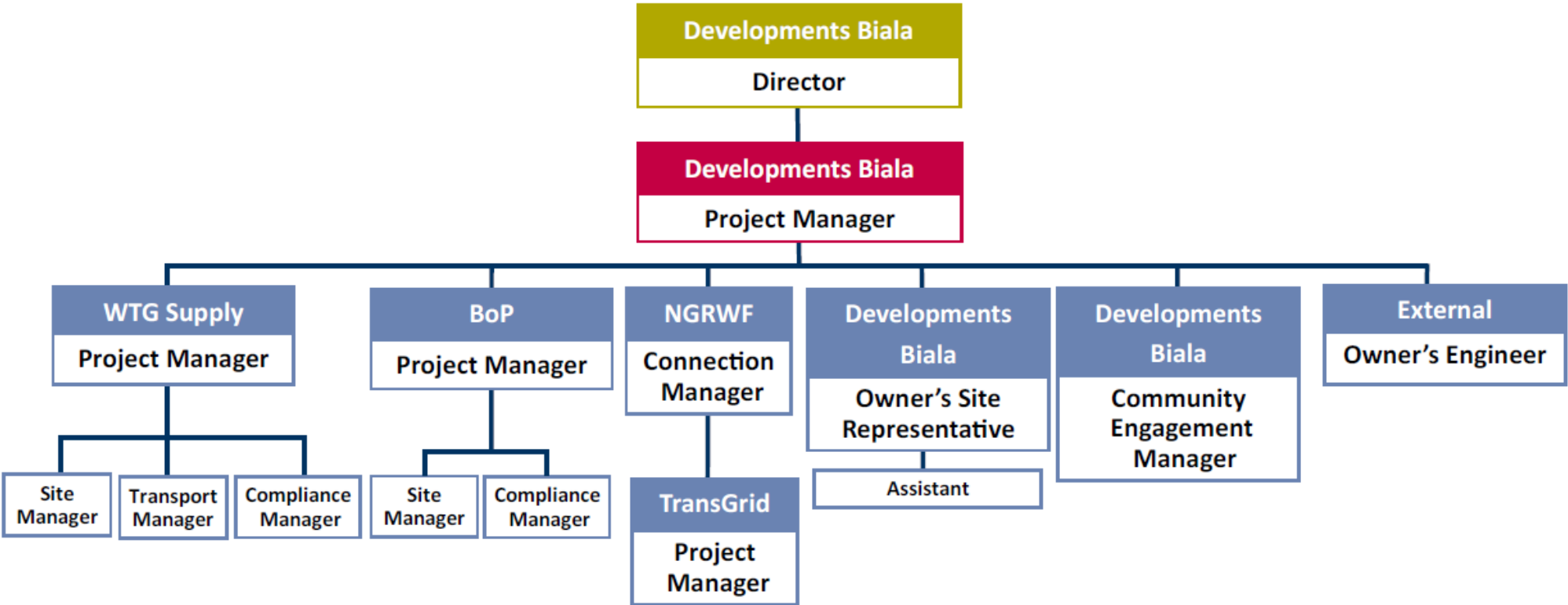


Figure 3.2 Project Organisation Chart



Environmental compliance is the responsibility of all Project and site personnel. For clarity and effective co-ordination of the EMS, specific roles and responsibilities for environmental performance and compliance during the construction and operation stages has been allocated. The key personnel as described in *Table 3.1* include:

- Developments Biala Director
- Developments Biala Project Manager
- Developments Biala Owner's Site Representative
- Developments Biala Owner's Site Representative Assistant
- Developments Biala Community Engagement Manager
- External Owner's Engineer
- BoP Project Manager
- BoP Site Manager
- BoP Compliance Manager
- WTG Supply Project Manager
- WTG Supply Site Manager
- WTG Supply Compliance Manager
- WTG Supply Transport Manager
- New Gullen Range Wind Farm (NGRWF) Connection Manager
- TransGrid Project Manager
- External Independent Environmental Auditor
- All personnel

As the owner, Developments Biala maintains overall responsibility for environmental compliance with the implementation of this EMS. However, all personnel and contractors are accountable through conditions of employment or contracts with each individual responsible for ensuring that their work complies with stated procedures.

Environmental management and compliance with the management actions and protocols outlined in this EMS will be the responsibility of all personnel and a contractual obligation for all contractors involved in the Project.

Table 3.1 summarises the roles and authorities of key personnel involved in the Project.

Table 3.1 Key Personnel

Key Personnel	Role and Authority
Developments Biala Project Director	<ul style="list-style-type: none"> Overall responsibility Accountable for the Developments Biala Project Manager
Developments Biala Project Manager	<ul style="list-style-type: none"> Ensures environmental commitments are integrated into the construction contracts, activities and work processes for the implementation of environmental management measures. Implementation of the EMS and associated documentation. Management of all operations, employees and contractors. Responsible for compliance with Project Approval and EPL. Attend Community Consultative Committee (CCC) meetings when required.
Developments Biala Owner's Site Representative	<ul style="list-style-type: none"> Responsible for the implementation of the EMS and associated documentation at a site-level. Overview supervision of environmental compliance. Supervision of the Owner's responsibilities on site. Day-to-day community and stakeholder liaison and involved landholder liaison. Attend CCC meetings when required.
Developments Biala Community Engagement Manager	<ul style="list-style-type: none"> Interfacing with the local community and co-ordinating responses to community, as necessary. Status of construction works will be communicated through community updates, and a regularly updated website. Liaison with the construction management team to ensure timely and effective engagement with the objective of maintaining strong community relations and open communications.
External Owner's Engineer	<ul style="list-style-type: none"> Interface between the CCC and the construction team. Responsible for ensuring detailed design and construction planning undertaken by BoP contractor and WTG supply contractor complies with the requirements of the CoC.
BoP Project Manager	<ul style="list-style-type: none"> Responsible for ensuring that appropriate resources are made available and deployed to implement the EMS and to support required systems, procedures and environmental objectives relevant to the BoP contractor's works.
BoP Site Manager	<ul style="list-style-type: none"> Responsible for ensuring that all BoP staff, contractors and visitors are site inducted/trained and managed in such a way as to effectively implement the EMS and to support required systems, procedures and environmental objectives relevant to the BoP contractor's works.
BoP Compliance Manager	<ul style="list-style-type: none"> Responsible for the day-to-day implementation of the EMS and associated Management Plans and Procedures, in respect of the works applicable to their contract jurisdictions relevant to the BoP contractor's works.
WTG Supply Project Manager	<ul style="list-style-type: none"> Responsible for ensuring that appropriate resources are made available and deployed to implement the EMS and to support required systems, procedures and environmental objectives relevant to the WTG supply contractor's works.

Key Personnel	Role and Authority
WTG Supply Site Manager	<ul style="list-style-type: none"> Responsible for ensuring that all WTG supply staff, contractors and visitors are site inducted/trained and managed in such a way as to effectively implement the EMS and to support required systems, procedures and environmental objectives relevant to the WTG supply contractor's works.
WTG Supply Compliance Manager	<ul style="list-style-type: none"> Responsible for the day-to-day implementation of the EMS and associated Management Plans and Procedures, in respect of the works applicable to their contract jurisdictions relevant to the WTG supply contractor's works.
WTG Supply Transport Manager	<ul style="list-style-type: none"> Responsible for the day-to-day implementation of the aspects of the Traffic Management Plan relating to WTG supply.
NGRWF Connection Manager	<ul style="list-style-type: none"> Responsible for arranging that Biala Wind Farm can connect to the NGRWF substation in consultation with TransGrid. Responsible for interfacing with Biala Wind Farm during Biala Wind Farm's electrical works at NGRWF substation to ensure these works meet the requirements of TransGrid. They are also responsible for ensuring that all NGRWF staff are site inducted/trained and managed in such a way as to effectively implement the EMS and to support required systems, procedures and environmental objectives.
TransGrid Project Manager	<ul style="list-style-type: none"> The interface between TransGrid's electrical works and the NGRWF Connection Manager. No physical works are expected by TransGrid on the site. However, in the case minor physical works are required, they are responsible for ensuring that all TransGrid staff are site inducted/trained and managed in such a way as to effectively implement the EMS and to support required systems, procedures and environmental objectives.
External Independent Environmental Auditor	<ul style="list-style-type: none"> Review the adequacy of the EMS and associated Management Plans and Procedures. Assess the environmental performance of the development and assess whether it is complying with the requirements in the Project CoC, EPL and EMS. Recommend measures or actions to improve the environmental performance of the Project. Undertake consultation with the relevant agencies. Feedback to the Developments Biala Project Manager.
All personnel	<ul style="list-style-type: none"> Comply with all legal and contractual requirements, including Project CoC and EPL. Undertake work in accordance with contract specifications which are to include the requirements of the EMS. Comply with management supervisory directions. Participate in induction and training as directed. Report, and if necessary respond to, any environmental incidents to their supervisor for timely reporting.

3.3 *TRAINING, AWARENESS AND COMPETENCE*

3.3.1 *Project Induction*

Prior to working on site, all employees, contractors and sub-contractors will undertake an environmental induction. The induction will address a range of issues including, but not limited to:

- this EMS;
- CoC, EPL and any other relevant permitting requirements;
- legal and regulatory requirements, including duty of care and the potential consequences of infringements;
- environmental responsibilities, including incident reporting;
- identification of environmentally sensitive areas, including threatened species habitat, waterways, heritage sites and sensitive receivers;
- identification of boundaries for vegetation clearing and sites to be avoided;
- identification of noxious weeds and measures to prevent them spreading, including landowner requirements (biosecurity);
- designated locations and procedures for washing, refuelling and maintenance areas for vehicles, plant and equipment;
- emergency plans and incident management, including emergency preparedness and response requirements and the use of spill kits;
- reporting processes for environmental harm or environmental incidents;
- roles and responsibilities in achieving compliance with this EMS and associated Management Plans and Procedures;
- procedures for responding to community enquiries and/or complaints; and
- identification and management of non-compliances with relevant statutory requirements and this EMS.

3.3.2 *Training*

In addition to the site induction, all employees, contractors and sub-contractors undertaking work on-site with potential to interact with the environment will receive appropriate environmental training. It will be tailored to achieve a level of awareness and competence appropriate to their assigned activities. Acceptance of environmental obligations will form a requirement of undertaking work on site for contractors, subcontractors and their personnel.

Targeted environmental awareness training will also be provided to individuals or groups of workers with a specific authority or responsibility for environmental management or those undertaking an activity with a high risk of environmental impact. This training will include all objectives and required mitigation measures contained in the EMS and relevant Management Plans and Procedures.

Environmental training topics likely to be required include:

- vehicle hygiene and pest plant/weed management protocols;
- work methods and efficient use of plant and materials;
- concrete washout procedures;
- wet weather procedures and inspections;
- sediment basin management;
- protecting waterways and riparian zones;
- noise and vibration minimisation;
- dust control;
- flora and fauna protection and management;
- clearing and grubbing procedures;
- biosecurity;
- identification/protection of indigenous/non-indigenous heritage items;
- waste management, minimisation and recycling;
- wastewater control;
- spill response procedures;
- emergency response procedures;
- legislation updates; and
- Community Engagement Manager to convey key messages on the project, manage landowner interactions and allow any issues to be raised.

Records of induction and training will be kept, including the topic of the training carried out, dates, participant names and trainer details. Inductees will be required to sign-off that they have been informed of the environmental issues and that they understand their responsibilities.

3.3.3

Tool-box Talks

Each contractor will conduct daily tool-box talks which will help to ensure that relevant information for current activities is communicated to the workforce and that feedback can be provided on issues of interest or concern.

Environmental input to tool-box talks and specific environmental training will be prepared and delivered by the Contractor's Compliance Manager, as necessary with the assistance of the Developments Biala Project Manager. Training topics are to be delivered to provide refresher information on the

environmental induction topics and associated environmental procedures. In the event of environmental near misses or incidents or changes to procedures that could result in changed levels of environmental risks, daily tool-box talks or environmental training sessions may be used to deliver updates.

3.4

EMS IMPLEMENTATION OBJECTIVES AND TARGETS

The objectives and targets for the implementation of the EMS are identified in *Table 3.2*, with objectives and targets for each environmental aspect identified in the associated Management Plans and Procedures. The purpose of setting overall objectives and targets for the EMS is to enable the construction works to meet a defined level of performance against identified criteria. Objectives and targets will be monitored as set out in *Table 6.1*.

Table 3.2 EMS Implementation Objectives and Targets

Item	Objective	Target	Documentation
Environmental compliance	Construction to be undertaken in accordance with the CoC.	100% compliance with CoC.	Internal and external independent audit records. Daily site walkover (visual observations) and weekly site inspections (checklist). Non-compliance Tracking Register.
Environmental compliance	Construction to be undertaken in accordance with the EPL.	100% compliance with EPL.	As above but with annual reporting to EPA for EPL.
Legal compliance	Compliance with all environmental legislative requirements.	100% compliance. zero reportable incidents.	Non-compliance Tracking Register. EMS, Plans and Procedures review and approval process. Daily site walkover (visual observations) and weekly site inspections (checklist).
Good environmental practice	Effective implementation of the EMS, Plans and Procedures	100% compliance with mitigation measures, monitoring and reporting requirements. Zero reportable incidents. Prompt investigation and implementation of corrective actions.	Daily site walkover (visual observations) and weekly site inspections (checklist). EMS reviews.

Item	Objective	Target	Documentation
Environmental complaints	Minimise environmental complaints and respond to all in a timely and appropriate manner.	Zero community complaints attributable to the Project. 100% compliance with complaints response timeframes. 100% compliance with complaints investigation and close-out.	Complaints Register. CCC Meeting minutes.
Incidents	Prevent potential of actual material harm to the environment and appropriately manage all environmental incidents.	Zero reportable environmental incidents. 100% compliance with incident reporting, investigation, implementation of corrective actions and close out requirements.	Incident notification forms. Internal and external notification and reporting processes.
Non-compliances	Minimise, avoid and appropriately manage all environmental non-compliances.	Full implementation of compliance tracking program. 100% compliance with timeframes for investigation and implementation of corrective actions.	Weekly inspection records. Internal and external Independent Environmental Audit records. Non-compliance Tracking Register.
Audits and inspections	Undertake meaningful environmental inspections and audits in a timely manner	100% compliance with timeframes and coverage of inspections and audits. 100% completion of follow-up actions to address identified issues.	Internal and external independent audit records. Corrective actions register or program records.
Environmental training and inductions	All staff to be aware of their environmental obligations and be competent in relation to their environmental responsibilities.	All staff to be appropriately inducted prior to commencing works on-site and have relevant competencies.	Induction records. Training and pre-start meeting records.

The implementation of the EMS is to be undertaken so as to achieve these objectives and targets and where evidence arises that the EMS is not being effective in this regard, a review will be undertaken to identify improvements. As necessary, additional measures will be identified and incorporated in

consultation with relevant internal stakeholders and external regulatory agencies as the need arises.

The implementation of the EMS is to be undertaken to achieve the objectives and targets set in Table 3.2. These objectives and targets will be monitored and tracked as detailed in the Environmental Inspection Program (refer to Table 6.1). Where a non-compliance is reported, a review will be undertaken to identify improvements. As necessary, additional measures will be identified and incorporated in consultation with relevant internal stakeholders and external regulatory agencies. Any non-compliance that requires specific agency notification will be dealt with in accordance with Section 7.1.2.

Developments Biala is committed to effective and genuine engagement with key stakeholders and the local community. As of January 2018, community consultation has involved the following:

- Project Website;
- Project Email Address;
- Newsletters;
- Community Information Sessions;
- Door Knocking and Face-to-Face Meetings; and
- Community Consultative Committee (CCC).

4.1 COMMUNITY CONSULTATIVE COMMITTEE

In accordance with CoC Schedule 4, Condition 3, a CCC has been formed that will operate for the life of the Project. The purpose of the CCC is to provide a forum for open discussion between representatives of the wind farm, the community, Upper Lachlan Shire Council and other stakeholders on issues relating to the wind farm. The CCC is operated in accordance with the *Community Consultative Committee Guidelines for State Significant Projects* (2016) issued by the DP&E.

CCC meetings held to date took place on:

- 11th May 2017;
- 3rd November 2016;
- 3rd December 2015;
- 27th August 2015; and
- 21st July 2015.

Developments Biala will hold the first CCC meeting since acquisition by BJCE in early February 2018.

Meetings will be held regularly through the construction and operations phase of the Project and as requested by the Chair of the CCC. Minutes of the CCC meetings are available on the Biala Wind Farm website.

4.2 BIALA WIND FARM WEBSITE

In accordance with CoC Schedule 4, Condition 9, Developments Biala has established the Biala Wind Farm website for the provision of electronic information as relevant to the stage of the Project (www.bialawindfarm.com).

The CoC Schedule 4, Condition 9 requires Developments Biala to:

(a) Make the following information publically available on its website as relevant to the stage of the development:

- the EIS;
- the final layout plans for the development;
- current statutory approvals for the development;
- approved strategies, plans or programs required under the conditions of consent;
- the proposed staging plans for the development if the construction, operation and/or decommissioning of the development is to be staged;
- a comprehensive summary of the monitoring results of the development, which have been reported in accordance with the various plans and programs approved under the conditions of this consent;
- a complaints register, which is to be updated on a monthly basis;
- minutes of CCC meetings;
- the annual Statement of Compliance with the EPL;
- any independent environmental audit, and the Applicant's response to the recommendations in any audit; and
- any other matter required by the Secretary; and

(b) keep this information up to date, to the satisfaction of the Secretary.

In addition, CoC Schedule 4, Condition 5 requires:

- The Applicant must provide regular reporting on the environmental performance of the development on its website, in accordance with the reporting arrangements in any plans or programs approved under the CoC.

In satisfaction of this requirement, Developments Biala will ensure that summaries of any reports prepared by external consultants under the Management Plans and any external audit reports described in this EMS are made available on the Project website.

Community consultation and information is governed by the Biala Wind Farm Community Consultation Strategy (refer to *Annex C*). Key requirements of the strategy, including procedures for handling complaints and enquiries relevant to the construction works, are provided in *Section 6.3*.

Developments Biala will continue to engage with various government agencies and other stakeholders during the construction and operation of the Project, as summarised in *Table 4.1* below.

Table 4.1 *Project Stakeholders*

Stakeholder	Environmental Management Aspect
DP&E	<ul style="list-style-type: none"> • Preparation and implementation of EMS and associated Management Plans and Procedures.
NSW Office of Environment and Heritage (OEH)	<ul style="list-style-type: none"> • Community and stakeholder management. • Preparation and implementation of Aboriginal Cultural Heritage Management Plan, Biodiversity Management Plan and Bird and Bat Adaptive Management Plan in accordance with timeframes in the CoC.
EPA	<ul style="list-style-type: none"> • Application for EPL prior to construction. • Preparation and implementation of PIRMP prior to wind farm operation. • Notification of EPA of any actual or potential material environmental harm during construction or operations.
RMS, Upper Lachlan Shire Council, local residents and school bus drivers and Police	<ul style="list-style-type: none"> • Preparation and implementation of Traffic Management Plan.
Local Land Services (LLS)	<ul style="list-style-type: none"> • Preparation and implementation of Biodiversity Management Plan.
Rural Fire Service (RFS)	<ul style="list-style-type: none"> • Preparation and implementation of Bushfire Response Map.
DPI	<ul style="list-style-type: none"> • To be advised and consulted where there is potential restriction of fish passage.
TransGrid	<ul style="list-style-type: none"> • Interface with the electricity network.

Environmental management for key environmental issues are defined in individual Management Plans. *Figure 5.1* identifies each Plan to be implemented, as required by the CoC Schedule 3 and 4. These Plans include reasonable and feasible mitigation and management measures to prevent and/or minimise any material harm to the environment that may result from the construction and operation of the Project (refer to *Section 5.1* for further details).

In addition to the Plans required by the CoC, some supplementary Plans and Procedures will be implemented for general environmental issues. Although they are not specifically required by the CoC, they have been assessed as relevant to the works being performed and are necessary to appropriately manage environmental impacts and track compliance with the CoC (refer to *Section 5.2* for further details).

Figure 5.1 *Management Plans and Procedures*

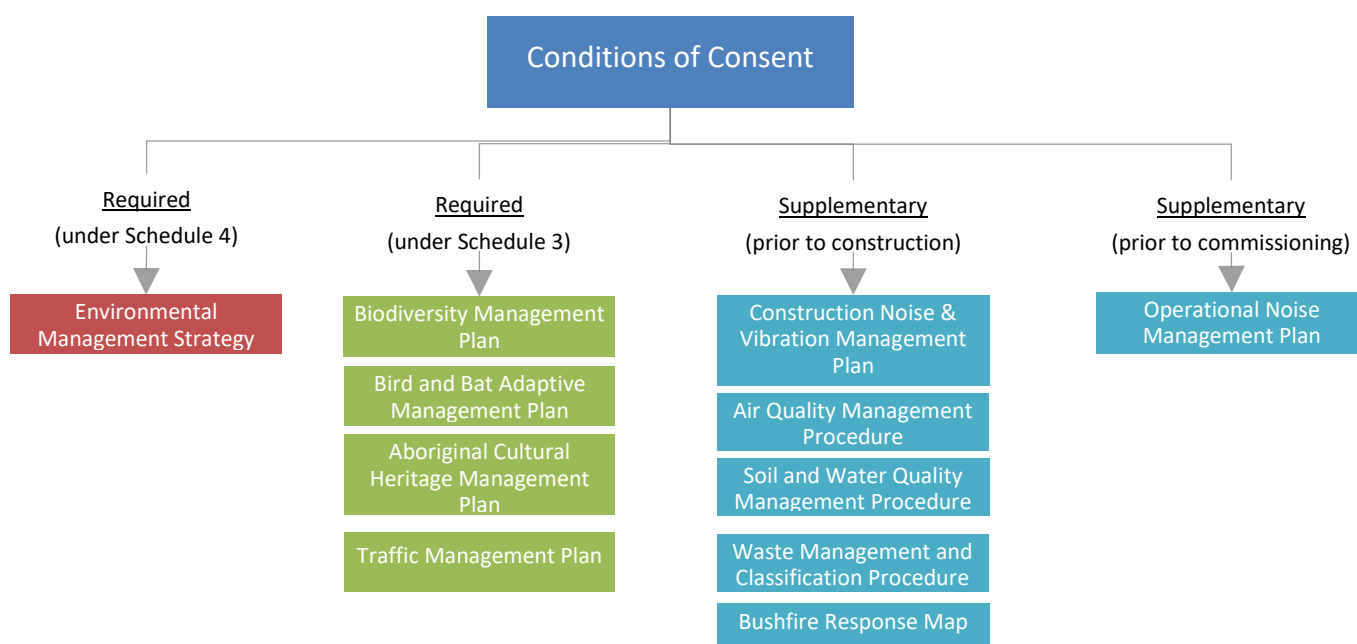


Table 5.1 provides a summary of the Management Plans required to fulfil the requirements of the CoC for the Project. These Plans require review and approval by DP&E and other regulatory agencies during their preparation, and ongoing agency involvement is expected during their implementation over the construction and operation phases of the Project.

Table 5.1 Required Management Plans

Management Plan	Relevant CoC
Prior to Construction	
Biodiversity Management Plan	Schedule 3, Condition 18
<ul style="list-style-type: none"> Prepared and implemented in consultation with OEH. Stand-alone Plan (refer to <i>Annex B</i>). 	Schedule 3, Condition 20
Aboriginal Cultural Heritage Management Plan	Schedule 3, Condition 22
<ul style="list-style-type: none"> Prepared and implemented in consultation with OEH and aboriginal stakeholders. Stand-alone Plan (refer to <i>Annex D</i>). 	Schedule 3, Condition 23
Traffic Management Plan	Schedule 3, Condition 24
<ul style="list-style-type: none"> Staged approach, with BoP contractor responsible for all aspects of traffic management, except turbine delivery. A Turbine Delivery Management Plan will be prepared by WTG supply contractor and form an annex to the main Plan. Prepared and implemented in consultation with RMS, Upper Lachlan Shire Council, local residents and school bus drivers and Police. Stand-alone Plan (refer to <i>Annex E</i>). 	Schedule 3, Condition 28
Prior to Commissioning	
Bird and Bat Adaptive Management Plan	Schedule 3, Condition 21
<ul style="list-style-type: none"> Prepared and implemented in consultation with OEH. Stand-alone Plan (refer to <i>Annex F</i>). 	

To fulfil the other environmental requirements in the CoC not requiring secondary approval by DP&E and other regulatory agencies, the supplementary Management Plans and Procedures in Table 5.2 must be implemented. They will provide DP&E, regulatory agencies, stakeholders and the community with assurance that Developments Biala have sound environmental management practices in place and will assist in avoiding potential Project delays later in the lifecycle of the Project.

Table 5.2 **Supplementary Management Plans and Procedures**

Management Plan/Procedure	Relevant CoC
Prior to Construction	
Construction Noise and Vibration Management Plan Stand-alone Plan (refer to <i>Annex G</i>).	Schedule 3, Condition 6
Air Quality Management Procedure EMS <i>Annex H</i> .	Schedule 3, Condition 14
Soil and Water Quality Management Procedure EMS <i>Annex I</i> .	Schedule 3, Condition 15 Schedule 3, Condition 16 Schedule 3, Condition 17
Bushfire Response Map EMS <i>Annex J</i> .	Schedule 3, Condition 33
Waste Management and Classification Procedure EMS <i>Annex K</i> .	Schedule 3, Condition 35
Pollution Incident Response Management Plan EMX <i>Annex N</i>	Schedule 4
Prior to Commissioning	
Operational Noise Management Plan Stand-alone Plan (refer to <i>Annex L</i>).	Schedule 3, Condition 10 Schedule 3, Condition 11 Schedule 3, Condition 12 Schedule 3, Condition 13

6.1

ENVIRONMENTAL PERFORMANCE MONITORING

The proposed inspection schedule, including personnel responsible for implementation of report findings, reporting requirements and frequency, is detailed below.

Table 6.1 Environmental Inspection Program [Note to DP&E - This table will be updated to match the monitoring measures in the individual Management Plans and Procedures currently being prepared in consultation with stakeholders]

Inspection	Objectives	Responsibility	Output	Timing
Site inspection	Review status of all controls and general environmental performance.	Compliance Managers	Daily site walkover and visual inspections. Weekly Environmental Checklist. Incident Records.	Daily site walkover and visual inspections. Weekly checklist and post significant rainfall across all major works in progress.
Noise and Vibration	Undertake noise and vibration monitoring to ensure compliance with Management Levels (Criteria) and mitigation and management measures in CNVMP.	Compliance Managers	Noise and Vibration Planning.	Weekly.
			Noise and Vibration checks.	Weekly if potential for impacts
			Equipment Noise Testing.	When potentially intrusive equipment is introduced to the project or to confirm noise is inaudible at non associated residences.
			Attended Noise Measurements.	Quarterly or, if complaints arise or, as needed for OOHV
			Unattended Noise Monitoring at impact assessment locations	As needed.
			Vibration Monitoring.	As needed or where vibration generating works are planned to occur within 100 m of a dwelling.
			Blast Monitoring.	Every blast.

Inspection	Objectives	Responsibility	Output	Timing
Traffic and Access	Review status of traffic and access controls for Project to ensure compliance with standard industry guidelines and mitigation and management measures in Traffic Management Plan.	Project Managers	Pre-start and pre-closedown inspections of traffic control devices and signage and the condition of local access roads.	Daily. When oversize or overmass movements
			Inspections of traffic control devices, signage and road condition.	Weekly and nightly during any night time work.
			Visual inspections to assess vehicle movement and traffic flows to and from the Project site.	Daily.
Soil and Water Quality	Review status of erosion and sediment controls for Project to ensure compliance with standard industry guidelines and mitigation and management measures in Soil and Water Quality Management Procedure.	Compliance Managers	Inspection of erosion and sediment controls for haul roads, cut off and diversion drains, stream crossings (if required), crane pad sites and stockpiles.	Daily site walkover. Weekly inspections in dry weather Within 24 hours of significant rainfall events (nominated as >20 mm in any 24-hour period).
Heritage	Inspect sensitive areas and activities with the potential to impact Aboriginal heritage to ensure compliance with standard industry guidelines and mitigation and management measures in Aboriginal Cultural Heritage Management Plan.	Compliance Managers	Weekly Environmental Checklist. Incident Records.	Weekly and during any ground break activities in proximity to PADs or registered sites
Flora and Fauna	No impact on vegetation beyond designated work areas to ensure compliance with management and mitigation measures in Biodiversity	Compliance Managers	Clearance Checklist. Incident Records.	Daily, weekly and monthly inspection requirements.

Inspection	Objectives	Responsibility	Output	Timing
	Management Plan.			

All site inspection and monitoring records are to be retained on-site for the duration of construction works including site rehabilitation and also noting the retention periods for EPL monitoring data.

6.2 *ENVIRONMENTAL PERFORMANCE AUDITING*

Developments Biala will implement a program of environmental audits commencing during construction and continuing throughout the operational life of the Project. The program will include internal audits and external audits. External audits will be as required under the CoC Schedule 4, Conditions 6, 7 and 8.

6.2.1 *Internal Audits*

During construction, internal audits will be conducted one month after commencement of construction and every following three months, unless an external audit is scheduled for the same time. One of these scheduled audits will be conducted within one month of the WTG contractor commencing on site. Construction phase audits will be completed within two weeks of the end of the audit period. Audits may be completed by Developments Biala, the BoP contractor or WTG supply contractor.

During operation, internal audits will be conducted at the end of one month after commencement of operation and then at the end of each 12 month anniversary of operation, unless an external audit is scheduled for the same time. Operational phase audits will be completed within one month of the end of the audit period. Audits may be completed by Developments Biala or the WOM contractor.

The Developments Biala Project Manager will conduct, or arrange for an experienced person to conduct internal audits of the Project environmental performance. The scope of the internal audits will focus on compliance with the Project Approval and EPL and the effectiveness of the EMS implementation, including Management Plans, Procedures and performance outcomes. The purpose of internal audits is to:

- establish that all management controls are being implemented and compliance and environmental performance objectives achieved;
- ensure effective implementation of the EMS, including completion of all environmental schedules and maintenance of relevant site records and demonstration that corrective action and follow-up occurs for non-compliances;
- confirm the relevance of the environmental controls and procedures contained within the EMS;
- identify any need to improve the controls and procedures contained within the EMS to ensure compliance or improve performance;
- review compliance with EPL; and
- ensure that Developments Biala and agency and community stakeholders can have confidence in the responsible implementation of the Project.

These internal audits will transition from construction issues to operation issues at the beginning of operation but will continue to review construction and rehabilitation requirements have been closed out during operation.

6.2.2 External Independent Environmental Audits

In addition to the internal audits, the Developments Biala Project Manager will also arrange external Independent Environmental Audits, as required under COC Schedule 4, Condition 6. These will be undertaken by appropriately experienced and qualified persons independent of the Project.

Developments Biala will within 1 year of the commencement of construction, and every 3 years thereafter, unless the Secretary directs otherwise, commission and pay the full cost of an Independent Environmental Audit of the Project. This audit will:

- (a) be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary;
- (b) include consultation with the relevant agencies;
- (c) assess the environmental performance of the development and assess whether it is complying with the requirements in this consent and any relevant EPL/s;
- (d) review the adequacy of any approved strategy, plan or program required under the abovementioned approvals; and

- (e) recommend measures or actions to improve the environmental performance of the development, and/or any strategy, plan or program required under these approvals.

This audit team will be led by a suitably qualified auditor and/or experts in any other fields specified by the Secretary. DP&E's *Independent Audit Guideline for State Significant Development* (2015) provides an audit and reporting framework for the independent audit that will guide compliance with this condition.

Within 3 months of commissioning this audit, or as otherwise agreed by the Secretary, Developments Biala will submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report and a timetable for the implementation of these recommendations as required. Developments Biala will implement these recommendations to the satisfaction of the Secretary.

The external independent audits will be undertaken in accordance with ISO 19011:2003 *Guidelines for Quality and/or Environmental Management Systems Auditing*.

6.3 NON-COMPLIANCE

Non-compliance may be identified through any of the inspections or audits defined in this EMS, impromptu site inspections, or be incident based.

Environmental non-compliance includes:

- non-compliance with environmental management controls or mitigation measures;
- non-compliance with CoC;
- environmental incidents not threatening material harm to the environment; and
- environmental emergencies threatening material harm to the environment.

Corrective actions may be triggered by any of the above and will include immediate steps taken to control event, investigation and development additional controls to prevent re-occurrence. Corrective actions will be developed in consultation with relevant stakeholders and will be assigned to the appropriate staff for close out. All corrective actions will be tracked through to completion through the Non-compliance Tracking Register.

All environmental incidents and non-compliances will be reported in accordance with *Section 7*.

In accordance with CoC Schedule 4, Condition 9, an Annual Statement of Compliance with the EPL (otherwise referred to as an Annual EPL Return) will be made publically available through the Biala Wind Farm website.

Developments Biala takes all complaints very seriously and aims to acknowledge and resolve complaints in a timely manner. The Biala Wind Farm Complaints Handling Procedure sets out Developments Biala's commitment to the public regarding the management and resolution of complaints. This Procedure is available in *Annex M*.

Developments Biala has provided the following ways for community enquiries and complaints to be lodged:

- An online form to which electronic complaints and enquiries may be transmitted. The website address is: <http://bialawindfarm.com/contact-us/>;
- A 24 hour toll-free telephone number on which complaints and enquiries about the project may be registered (1800 370 045);
- An email address to which electronic complaints and enquiries may be transmitted (info@bialawindfarm.com);
- A postal address to which written complaints and enquiries may be sent (Biala Wind Farm, Suite 3, level 21, 1 York Street, Sydney, NSW 2000); and
- In person by prior arrangement via our head office in Sydney (Suite 3, Level 21, 1 York Street, Sydney, NSW 2000).

In accordance with CoC Schedule 4, Condition 9, it is a requirement to record all complaints in a Complaints Register. An anonymous version of this Complaints Register is available on the Biala Wind Farm website and will be updated monthly for the lifetime of the Project.

The EMS is a working document that requires review and, if necessary, amendment during the life of the Project. The Developments Biala Project Manager shall undertake a review of the EMS where:

- an EMS audit makes findings or recommendations identifying a need;
- there is a significant change to the construction schedule, the site layout or a change in the construction methodology;
- site based conditions require a change to the environmental controls and procedures identified within the EMS and associated Management Plans and Procedures; and
- an environmental incident occurs that requires corrective actions to be incorporated in the EMS.

The EMS review shall consider the environmental controls and procedures set out within the EMS (inclusive of the annexures) to make sure the environmental controls and procedures remain applicable to the activities being carried out.

Changes to the EMS will be submitted to the DP&E, allowing one month for the DP&E to review and approve changes prior to the changes becoming effective. Changes to the EMS will be communicated through tool-box talks to existing on-site personnel and be incorporated into environmental induction material.

To ensure that the strategies, plans and programs are updated on a regular basis, and incorporate any recommended measures to improve the environmental performance of the development CoC Schedule 4, Condition 2 requires that within 3 months of the submission of:

- (a) An incident report under Condition 4 below;
- (b) An audit report under Condition 7 below; or
- (c) Any modification to the conditions of this consent (unless the conditions require otherwise),

Developments Biala must review and, if necessary, revise the strategies, plans, and programs required under the CoC to the satisfaction of the Secretary. Where this review leads to revisions in any such document, then within 4 weeks of the review the revised document must be submitted to the Secretary for approval.

Incidents causing or threatening material harm to the environment are to be notified. Material harm to the environment is defined to occur where:

- (i) it involves actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial, or
- (ii) it results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000 (or such other amount as is prescribed by the regulations), and

For the purposes of the above:

- loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment; and
- it does not matter that harm to the environment is caused only in the premises where the pollution incident occurs.

All environmental incidents will be recorded and reported internally to aid in the prevention of further occurrences, regardless of whether causing material harm or not. These internal incident management and reporting procedures will be undertaken to ensure ongoing staff and site safety. Environmental incidents causing material harm will also trigger standard regulatory notification and reporting, as described in *Section 7.1.2*.

In the event of an environmental incident or emergency, the environmental incident and emergency response procedures will be implemented. These procedures include the initial actions required to be undertaken to avoid or minimise environmental harm and notify relevant Project personnel and regulatory agencies with emergency response obligations.

Once initial incident management has occurred, the Developments Biala Environmental Incident Classification and Reporting Procedure will be implemented.

Internal Notification and Reporting Process

All environmental incidents will be managed and reported in accordance with the Developments Biala Environmental Incident Classification and Reporting Procedure. All records of environmental complaints and non-compliances will be collected in appropriate registers and forwarded to the Compliance Managers who will be able to review all investigations for adequacy and approve corrective actions to the extent required by the CoC.

Typically, environmental incidents will be notified verbally immediately and in writing within one hour of any incident occurring to the Site Managers. Incident reports will be provided to the Compliance Managers within 24 hours

of the incident occurring, including lessons learnt from each environmental incident and proposed measures to prevent the occurrence of a similar incident. If 24 hours is insufficient time to complete full investigations an interim report will be provided specifying a time required to complete the full investigation. All efforts will be undertaken immediately to avoid and reduce impacts of incidents and suitable controls put in place. Incidents will be closed out as quickly as possible, taking all required action to resolve each environmental incident.

Where required, due to the severity or ongoing nature of the incident, investigations will be conducted and action plans established in order that the event does not occur again. Where lessons are learnt from the investigation or current procedures are identified as being ineffective, the EMS will be revised by the Compliance Manager to include the improved procedures or requirement and submitted to the Environmental Representative for approval.

The environmental investigation will include the following basic elements:

- identifying the cause, extent and responsibility of the incident;
- identifying and implementing the necessary corrective action;
- identifying the personnel responsible for carrying out the corrective action;
- implementing or modifying controls necessary to avoid a repeat occurrence of the incident;
- recording any changes in written procedures required; and
- advising the relevant government agencies if any substantial pollution has occurred.

Incident investigations will be documented and retained.

7.1.2 *Statutory Notifications under the Project Approval and EPL*

Developments Biala will immediately notify the Secretary and any other relevant agencies of an Incident (as required by CoC Schedule 4, Condition 4). Within 7 days of the date of the Incident, Developments Biala will provide the Secretary and any relevant agencies with a detailed report on the Incident, and such further reports as may be requested.

Developments Biala is also to ensure compliance with the notification and other requirements of the Project EPL and the POEO Act. The Act requires immediate notification to relevant authorities, which means any of the following:

- EPA (via the EPA Environment Line 131 555);
- Ministry of Health (via the Public Health Unit);
- WorkCover Authority;
- Local Council; and
- Fire and Rescue NSW.

The POEO Act outlines responsibilities down to an individual level to notify incidents threatening material harm to the environment immediately. In general terms all individuals are responsible for reporting such incidents to the Project Managers who in turn will inform the Owner's Site Representative and Developments Biala senior management, as set out in the Project Communications Plan, for notification to relevant authorities. It also requires that an individual notify the incident where they cannot make contact with their employer. Relevant authority contact details are included in *Table 7.1* below and should be displayed where all site workers can access them easily in the event of a notifiable incident occurring.

Where an incident involves an Aboriginal site, relevant Registered Aboriginal Parties will be notified and their input sought in closing out the incident.

Table 7.1 *Emergency Authority Contact (relevant to matters addressed by POEO Act)*

Contact	Phone Number
1. The EPA Environment Line	131 555
2. The Ministry of Health via Goulburn office of the Public Health Unit (PHU)	Goulburn PHU (Murrumbidgee and Southern NSW LHD) Locked Bag 11, Goulburn, 2580 Phone: (02) 4824 1837 Fax: (02) 4824 1831 / 4822 5038 (secure line)
3. The WorkCover Authority	13 10 50
4. Upper Lachlan Shire Council	Crookwell Office 02 4830 1000 After Hours Emergency 0429 786659 Gunning Office 02 4845 4100 After Hours Emergency 0427 454206 Taralga Office 02 4840 2099 After Hours Emergency 0429 786659
5. Fire and Rescue NSW	000

A PIRMP will be prepared and implemented prior to the commencement of operations to meet the requirements of the POEO Act. In the event of an environmental incident or emergency, the environmental incident and emergency response procedures will be implemented. These procedures include the initial actions required to be undertaken to avoid or minimise environmental harm and notify relevant Project personnel and regulatory agencies with emergency response obligations.

The PIRMP will include internal and external reporting requirements, contact details and provide a flow chart for incident and emergency management to be followed in the event of an incident and include time frames for reporting, and who needs to be contacted.

The CoC identify various reporting obligations associated with the construction of the Project, as detailed in *Table 7.2*.

Table 7.2 CoC External Reporting Requirements

CoC	Requirement	Comment
Schedule 3, Condition 2	<u>Visual Impact Mitigation</u> Prior to the commencement of construction, the Applicant must notify the relevant owners of the residences referred to in Condition 1 above, that they have the right to request the Applicant to implement visual impact mitigation measures at their residence (including its curtilage) at any time within 5 years of the commencement of construction.	Developments Biala will complete this within the required timeline.
Schedule 3, Condition 12	<u>Operational Noise Monitoring</u> Within 6 months of the commencement of operations, the Applicant must: (a) undertake noise monitoring to determine whether the development is complying with the relevant conditions of this consent; and (b) submit a copy of the monitoring results to the Department and the EPA.	Refer to Operational Noise Management Plan (Annex L).
Schedule 3, Condition 30	<u>Notification of Aviation Authorities</u> Within 30 days of the practical completion of the construction of any wind turbine or mast, the Applicant must: (a) provide confirmation to the authorities that the information that was previously provided remains accurate; or (b) update the information previously provided.	Developments Biala will complete this within the required timeline.
Schedule 4, Condition 4	<u>Incident Reporting</u> The Applicant must immediately notify the Secretary and any other relevant agencies of any incident. Within 7 days of the date of the incident, the Applicant shall provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested.	Refer to <i>Section 7.1</i> of EMS
Schedule 4, Condition 5	<u>Regular Reporting</u> The Applicant must provide regular reporting on the environmental performance of the development on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this consent.	Refer to <i>Section 7.2</i> of EMS
Schedule 4, Condition 7	<u>Auditing</u> Within 3 months of commissioning this audit, or as otherwise agreed by the Secretary, the Applicant must submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report and a timetable for the implementation of these recommendations as required.	Refer to <i>Section 6.2</i> of EMS

CoC	Requirement	Comment
Schedule 4, Condition 9	<u>Access to Information</u> The Applicant must: (a) make the following information publicly available on its website as relevant to the stage of the development: <ul style="list-style-type: none"> • the EIS; • the final layout plans for the development; • current statutory approvals for the development; • approved strategies, plans or programs required under the conditions of this consent; • the proposed staging plans for the development if the construction, operation and/or decommissioning of the development is to be staged; • a comprehensive summary of the monitoring results of the development, which have been reported in accordance with the various plans and programs approved under the conditions of this consent; • a complaints register, which is to be updated on a monthly basis; • minutes of CCC meetings; • the annual Statement of Compliance with the EPL • any independent environmental audit, and the Applicant's response to the recommendations in any audit; and • any other matter required by the Secretary; and (b) keep this information up to date, to the satisfaction of the Secretary.	Developments Biala will update the Project website as the information becomes available

The EPL identifies various reporting obligations associated with the construction of the Project: **[Note to DP&E - This table will be updated once EPL issued].**

Condition	Requirement	Comment

The Developments Biala Project Manager is responsible for reviewing and ensuring all necessary reporting and notifications have taken place including:

- internal environmental performance reporting; and
- statutory reporting and notifications (in conjunction with the Compliance Managers).

The Developments Biala Community Engagement Manager is responsible for all community liaison and reporting.

REFERENCES

AS/NZS ISO 14001:2004 *Environmental Management Systems – requirements with guidance for use* as a guide in its preparation.

ERM (2015) *Biala Wind Farm Environmental Impact Statement*. Environmental Resources Management Pty Ltd. NSW, Australia

ISO 19011:2003 *Guidelines for Quality and/or Environmental Management Systems Auditing*.

NSW Department of Infrastructure, Planning and Natural Resources (2004). *Guideline for the Preparation of Environmental Management Plans*.

NSW Department of Planning and Environment (2015). *Independent Audit Guideline for State Significant Development*.

NSW Department of Planning and Environment (2016). *Community Consultative Committee Guidelines*.

Annex A

Conditions Of Consent

Development Consent

Section 89E of the *Environmental Planning & Assessment Act 1979*

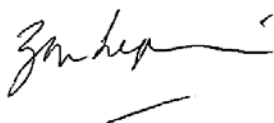
As delegate of the Minister for Planning, the Planning Assessment Commission approves the development application referred to in schedule 1, subject to the conditions in schedules 2 to 4.

These conditions are required to:

- prevent, minimise, and/or offset adverse environmental impacts;
- set standards and performance measures for acceptable environmental performance;
- require regular monitoring and reporting; and
- provide for the ongoing environmental management of the development.



Mr Garry West
Member of the Commission



Professor Zada Lipman
Member of the Commission



Dr Maurice Evans
Member of the Commission

Sydney

12 April 2017

SCHEDULE 1

Application Number:	SSD 6039
Applicant:	Newtricity Biala Property Ltd
Consent Authority:	Minister for Planning
Land:	See Appendix 1
Development:	Biala Wind Farm

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DEFINITIONS

Aboriginal stakeholders	Aboriginal stakeholders registered for cultural heritage consultation for the development
Ancillary infrastructure	All wind farm infrastructure with the exception of wind turbines, including but not limited to collector substations, switching stations, permanent offices and site compounds, electricity transmission lines and internal roads
Applicant	Newtricity Biala Property Ltd (formerly Newtricity), or any person who seeks to carry out the development approved under this consent
BCA	Building Code of Australia
CASA	Civil Aviation Safety Authority
CCC	Community Consultative Committee
Conditions of this consent	Conditions contained in schedules 1 to 4 inclusive
Construction	The construction of the development, including but not limited to the construction of wind turbines, ancillary infrastructure and road upgrades (excludes pre-construction minor works)
Council	Upper Lachlan Shire Council
CPI	Consumer Price Index (All Groups Price Index for Sydney)
Curtilage	The land immediately surrounding a residence, including any closely located and associated buildings or structures, where domestic and/or recreational activities take place
Day	The period from 7am to 6pm on Monday to Saturday, and 8am to 6pm on Sundays and public holidays
Decommissioning	The removal of wind turbines and any associated above ground infrastructure
Department	Department of Planning and Environment
Development	The development as described in the EIS
DPI	Department of Primary Industries
EIS	The environmental assessment for the <i>Biala Wind Farm</i> , prepared by Environmental Resources Management Pty Ltd (ERM) and dated 31 July 2015, as modified by the <i>Biala Wind Farm Response to Submissions</i> , prepared by ERM and dated February 2016 and <i>Additional Information</i> , prepared by ERM and dated 15 June 2016, 13 July 2016, 16 March 2017 and 27 March 2017.
EEC	Endangered ecological community, as defined under the TSC Act
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i>
EP&A Regulation	<i>Environmental Planning and Assessment Regulation 2000</i>
EPA	Environment Protection Authority
EPL	Environment Protection Licence issued under the POEO Act
Evening	The period from 6pm to 10pm
Feasible	Feasible relates to engineering considerations and what is practical to build or implement
Heavy vehicle	As defined under the <i>Heavy Vehicle National Law (NSW)</i> , but excluding light and medium rigid trucks and buses no more than 8 tonnes and with not more than 2 axles
Heritage Act	<i>Heritage Act 1977</i>
Heritage item	An item as defined under the Heritage Act and/or an Aboriginal object or Aboriginal place as defined under the NP&W Act
Incident	A set of circumstances that: <ul style="list-style-type: none"> causes or threatens to cause material harm to the environment; and/or breaches or exceeds the limits or performance measures/criteria in this consent.
Material harm to the environment	Actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial
Minimise	Implement all reasonable and feasible measures to reduce the impacts of the development
Minister	Minister for Planning, or delegate
Mitigation	Activities associated with reducing the impacts of the development
Night	The period from 10pm to 7am on Monday to Saturday, and 10pm to 8am on Sundays and NSW Public Holidays
Non-associated residence	Any residence on privately-owned land where the owner has not reached a commercial or in kind agreement with the Applicant in relation to the development. In some cases, this agreement will be restricted. First, it may only cover certain aspects of the development (such as the noise or

	visual impacts). In such cases, the residence is only associated for those aspects covered by the agreement, and remains a non-associated residence for all those aspects that are not covered by the agreement. Second, while the agreement may cover a certain aspect of the development (such as noise impacts), it may limit the extent of any such impact (by setting absolute noise levels at a residence, for instance). In these cases, the residence is only associated to the extent that the impact is covered by the agreement, and is considered to be non-associated for any impacts that exceed the limits specified in the agreement
NP&W Act	<i>National Parks and Wildlife Act 1974</i>
OEH	Office of Environment and Heritage
OLS	Obstacle Limitation Surface
Operation	The operation of the development, but does not include commissioning trials of equipment or use of temporary facilities
Over-dimensional	Over-mass and/or over-size/length vehicles
POEO Act	<i>Protection of the Environment Operations Act 1997</i>
Pre-construction minor works	Includes the following activities: <ul style="list-style-type: none"> • building/road dilapidation surveys; • investigative drilling, excavation or salvage; • minor clearing or translocation of native vegetation; • establishing temporary site office (in locations meeting the criteria identified in the conditions of this consent) • installation of environmental impact mitigation measures, fencing, enabling works; and • minor access roads and minor adjustments to services/utilities, etc.
Privately-owned land	Land that is not owned by a public agency or publicly-owned commercial entity (or its subsidiary)
Public infrastructure	Linear and related infrastructure that provides services to the general public, such as roads, railways, water supply, drainage, sewerage, gas supply, electricity, telephone, telecommunications, etc.
RAAF	Royal Australian Air Force – Aeronautical Information Services
Reasonable	Reasonable relates to the application of judgement in arriving at a decision, taking into account: mitigation benefits, cost of mitigation versus benefits provided, community views and the nature and extent of potential improvements
Rehabilitation	The restoration of land disturbed by the development to a good condition, to ensure it is safe, stable and non-polluting
Residence	Any dwelling in existence at the date of this consent, or a dwelling that is either the subject of a development consent or a development application that was lodged but not yet determined at the date of this consent once a final occupation certificate has been issued for the dwelling
RFS	Rural Fire Service
RMS	Roads and Maritime Services
Secretary	Secretary of the Department, or nominee
Shadow flicker	The flickering effect caused by the intermittent shading of the sun by the rotating blades of the wind turbines
Site	The land defined in Appendix 1
Temporary facilities	Temporary facilities used for the construction and/or decommissioning of the development, including but not limited to temporary site offices and compounds, concrete batching plants, materials storage compounds, maintenance workshops, testing laboratories or material stockpiles
TSC Act	<i>Threatened Species Conservation Act 1995</i>
VPA	Voluntary Planning Agreement
Wind turbine	Turbines used for the generation of electricity by wind, including the tower, blades and associated components

SCHEDULE 2 ADMINISTRATIVE CONDITIONS

DEFERRED COMMENCEMENT

1. This consent does not operate until:
 - (a) the development of the transmission line required to connect the wind farm to the high voltage electricity network:
 - has been granted consent, or approval by a determining authority within the meaning of section 110 of, under the *Environmental Planning and Assessment Act 1979*; or
 - if the development is an activity which does not require consent or approval, a determining authority has assessed and determined to carry out the activity under Part 5 of the *Environmental Planning and Assessment Act 1979*;
 - (b) the applicant has forwarded a copy of the consent, approval or determination (as the case may be) to the Department; and
 - (c) the Secretary has notified the Applicant that it is satisfied that the requirement at 1(a) has been met.

OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT

2. In addition to meeting the specific environmental performance criteria established under this consent, the Applicant must implement all reasonable and feasible measures to prevent and/or minimise any material harm to the environment that may result from the construction, operation, or decommissioning of the development.

TERMS OF CONSENT

3. The Applicant must carry out the development:
 - (a) generally in accordance with the EIS; and
 - (b) in accordance with the conditions of this consent.

Note: The general layout of the development is shown in Appendix 2.
3. If there is any inconsistency between the above documents, the most recent document must prevail to the extent of the inconsistency. However, the conditions of this consent must prevail to the extent of any inconsistency.
4. The Applicant must comply with any reasonable requirement/s of the Secretary arising from the Department's assessment of:
 - (a) any strategies, plans, programs, reviews, audits, reports or correspondence that are submitted in accordance with this consent;
 - (b) any reports, reviews or audits commissioned by the Department regarding compliance with this consent; and
 - (c) the implementation of any actions or measures contained in these documents.

LIMITS ON CONSENT

Wind Turbines

5. The Applicant may construct, operate and replace or upgrade as necessary up to 31 wind turbines.

Notes:

- *To avoid any doubt, the Applicant does not require additional approval to replace or upgrade wind turbines over time, as long as the replacement or upgrade is carried out in accordance with the conditions of this consent.*
- *To identify the approved wind turbines, see the figures and corresponding GPS coordinates in Appendix 2.*

Wind Turbine Height

6. No wind turbines may be greater than 185 metres in height (measured from above ground level to the blade tip).

Micro-siting Restrictions

7. The Applicant may micro-site the wind turbines and ancillary infrastructure without further approval provided:
 - (a) no wind turbine is moved more than 100 metres from the relevant GPS coordinates shown in Appendix 2, except for turbine T29;
 - (b) wind turbine T29 is moved at least 350 metres from the wedge-tailed eagle nest shown on the figure in Appendix 5, and if practicable, over 500 metres from this nest;

- (c) the closest turbine is moved no closer to residence H06, H07, H09, H11 or H12 shown in the figure in Appendix 2;
- (d) the revised location of a wind turbine is at least 50 metres from existing hollow-bearing trees; or where the proposed turbine location is already within 50 metres of existing hollow-bearing trees, the revised location of the turbine is not moved any closer to the existing hollow-bearing trees; and
- (e) the revised location of the wind turbine and/or ancillary infrastructure would not result in any non-compliance with the conditions of this consent.

Limits on construction

8. The Applicant must not undertake the construction of turbines T01, T02 and T03 during September and October, unless otherwise agreed in writing with the owner of Residence H07.

Final Layout Plans

9. Prior to the commencement of construction, the Applicant must submit detailed plans of the final layout of the development to the Secretary, including:
 - (a) details on the micro-siting of any wind turbines and/or ancillary infrastructure; and
 - (b) the GPS coordinates of the final wind turbine locations.

Note: If the construction of the development is to be staged, then the provision of these plans may be staged.

NOTIFICATION OF DEPARTMENT

10. Prior to the commencement of the construction, operation and/or decommissioning of the development or the cessation of operations, the Applicant must notify the Department in writing of the date of commencement or cessation.

If the construction, operation and/or decommissioning of the development is to be staged, then the Applicant must:

- (a) notify the Department in writing prior to the commencement of the relevant stage, and clearly identify the development that would be carried out during the relevant stage; and
- (b) inform the local community and the Community Consultative Committee about the proposed staging plans.

STRUCTURAL ADEQUACY

11. The Applicant must ensure that:
 - (a) the wind turbines are constructed in accordance with the relevant standards, including the structural design requirements of *IEC 61400-1 Wind turbines – Part 1: Design Requirements* (or equivalent); and
 - (b) all new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the BCA.

Notes:

- Under Part 4A of the EP&A Act, the Applicant is required to obtain construction and occupation certificates for the proposed building works.
- Part 8 of the EP&A Regulation sets out the requirements for the certification of the development.

DEMOLITION

12. The Applicant must ensure that all demolition work on site is carried out in accordance with AS 2601-2001: *The Demolition of Structures*, or its latest version.

PROTECTION OF PUBLIC INFRASTRUCTURE

13. Unless the Applicant and the applicable authority agree otherwise, the Applicant must:
 - (a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the development; and
 - (b) relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the development.

This condition does not apply to the upgrade and maintenance of the road network, which is expressly provided for in the conditions of this consent.

OPERATION OF PLANT AND EQUIPMENT

14. The Applicant must ensure that all plant and equipment used on site, or in connection with the development, is:
- (a) maintained in a proper and efficient condition; and
 - (b) operated in a proper and efficient manner.

UPDATING & STAGING OF STRATEGIES, PLANS OR PROGRAMS

15. With the approval of the Secretary, the Applicant may submit any strategy, plan or program required by this consent on a progressive basis.

To ensure the strategies, plans or programs under the conditions of this consent are updated on a regular basis, the Applicant may at any time submit revised strategies, plans or programs to the Secretary for approval.

With the agreement of the Secretary, the Applicant may prepare any revised strategy, plan or program without undertaking consultation with all the parties referred to under the relevant condition of this consent.

Notes:

- *While any strategy, plan or program may be submitted on a progressive basis, the Applicant must ensure that all development being carried out on site is covered by suitable strategies, plans or programs at all times.*
- *If the submission of any strategy, plan or program is to be staged, then the relevant strategy, plan or program must clearly describe the specific stage to which the strategy, plan or program applies, the relationship of this stage to any future stages, and the trigger for updating the strategy, plan or program.*

COMMUNITY ENHANCEMENT

16. Prior to the commencement of construction, unless the Secretary agrees otherwise, the Applicant must enter into a VPA with the Council in accordance with:
- (a) Division 6 of Part 4 of the EP&A Act; and
 - (b) the terms of the applicable offer summarised in Appendix 3.

SCHEDULE 3 ENVIRONMENTAL CONDITIONS - GENERAL

VISUAL

Visual Impact Mitigation

1. For a period of 5 years from the commencement of construction, the owner of:
 - (a) residence H03a; and
 - (b) any non-associated residence within 4 kilometres of any wind turbine,may ask the Applicant to implement visual impact mitigation measures on their land to minimise the visual impacts of the development on their residence (including its curtilage).

Upon receiving such a written request from the owner of these residences, the Applicant must implement appropriate mitigation measures (such as landscaping and vegetation screening) in consultation with the owner.

These mitigation measures must be reasonable and feasible, aimed at reducing the visibility of the wind turbines from the residence and its curtilage, and commensurate with the level of visual impact on the residence.

All mitigation measures must be implemented within 12 months of receiving the written request, unless the Secretary agree otherwise.

If the Applicant and the owner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the Secretary for resolution.

Notes:

- *To avoid any doubt, mitigation measures are not required to be implemented to reduce the visibility of wind turbines from any other locations on the property other than the residence and its curtilage.*
- *The identification of appropriate visual impact mitigation measures will be more effective following the construction of the wind turbines. While landowners may ask for the implementation of visual impact mitigation measures shortly after the commencement of construction, they should consider the merits of delaying this request until the wind turbines are visible from their residence.*

2. Prior to the commencement of construction, the Applicant must notify the relevant owners of the residences referred to in condition 1 above, that they have the right to request the Applicant to implement visual impact mitigation measures at their residence (including its curtilage) at any time within 5 years of the commencement of construction.

Visual Appearance

3. The Applicant must:
 - (a) minimise the off-site visual impacts of the development;
 - (b) ensure the wind turbines are:
 - painted off white/grey, unless otherwise agreed by the Secretary; and
 - finished with a surface treatment that minimises the potential for glare and reflection;
 - (b) ensure the visual appearance of all ancillary infrastructure (including paint colours), blends in as far as possible with the surrounding landscape; and
 - (d) not mount any advertising signs or logos on wind turbines or ancillary infrastructure.

Lighting

4. The Applicant must:
 - (a) minimise the off-site lighting impacts of the development;
 - (b) ensure that any aviation hazard lighting complies with CASA's requirements;
 - (c) minimise the visual impacts of any aviation lighting by implementing measures such as:
 - partial shielding of lights;
 - operating the lights only at night or during times of reduced visibility; and
 - turning the lights on and off simultaneously;
 - (d) ensure that all external lighting associated with the development (apart from any aviation hazard lighting):
 - is installed as low intensity lighting (except where required for safety or emergency purposes);
 - does not shine above the horizontal;
 - uses best management practice for bat deterrence; and

- complies with *Australian Standard AS4282 (INT) 1997 – Control of Obtrusive Effects of Outdoor Lighting*, or its latest version.

Shadow Flicker

- The Applicant must ensure that shadow flicker from operational wind turbines does not exceed 30 hours per year at any non-associated residence.

NOISE

Construction & Decommissioning Noise

- The Applicant must:
 - minimise the construction or decommissioning noise of the development, including any associated traffic noise; and
 - ensure that the noise generated by any construction or decommissioning activities is managed in accordance with the best practice requirements outlined in the *Interim Construction Noise Guideline* (DECC, 2009), or its latest version.
- Unless the Secretary agrees otherwise, the Applicant must only undertake construction or decommissioning activities between:
 - 7 am to 6 pm Monday to Friday;
 - 8 am to 1 pm Saturdays; and
 - at no time on Sundays and NSW public holidays.

The following construction or decommissioning activities may be undertaken outside these hours without the approval of the Secretary:

- activities that are inaudible at non-associated residences;
- the delivery of materials as requested by the NSW Police Force or other authorities for safety reasons; or
- emergency work to avoid the loss of life, property and/or material harm to the environment.

Blasting

- The Applicant may only carry out blasting on site between 9 am and 5 pm Monday to Friday and between 8 am and 1 pm on Saturday inclusive. No blasting is allowed on Sundays or public holidays.
- The Applicant must ensure that any blasting carried out on site does not exceed the criteria in Table 1.

Table 1: Blasting criteria

Location	Airblast overpressure (dB(Lin Peak))	Ground vibration (mm/s)	Allowable exceedance
Any non- associated residence	120	10	0%
	115	5	5% of the total number of blasts or events over a period of 12 months

Operational Noise Criteria – Wind Turbines

- The Applicant must ensure that the noise generated by the operation of wind turbines does not exceed the relevant criteria in Table 2 at any non-associated residence.

Table 2: Noise criteria dB(A)

Residence	Criteria (dB(A)) with Reference to Hub Height Wind Speed (m/s)									
	3	4	5	6	7	8	9	10	11	12 or more
H03, H04	35	35	36	37	38	39	40	42	43	46
H05	35	35	35	35	35	37	38	39	41	43
H06	35	35	35	35	35	36	38	40	43	46
H07	35	35	36	37	38	40	41	44	46	50
H09	36	37	38	40	41	42	44	45	47	48
H11	35	35	35	36	37	39	40	42	43	46
H12	35	35	37	39	40	42	43	45	46	48
H13, H14	35	35	36	37	38	39	39	40	40	40
H15	35	35	35	35	36	36	37	37	38	39
H17	36	37	38	40	41	42	44	45	47	48
DA18	35	35	37	39	40	42	43	45	46	48
All other non-associated residences	The higher of 35 dB(A) or the existing background noise level plus 5 dB(A)									

Note: To identify the residences referred to in Table 2, see the applicable figure in Appendix 2.

Noise generated by the operation of the wind turbines is to be measured in accordance with the relevant requirements of the South Australian Environment Protection Authority's *Wind Farms – Environmental Noise Guidelines 2009* (or its latest version), as modified by the provisions in Appendix 4. If this guideline is replaced by an equivalent NSW guideline, then the noise generated is to be measured in accordance with the requirements in the NSW guideline.

However, these criteria do not apply if the Applicant has an agreement with the relevant owner/s of these residences to generate higher noise levels, and the Applicant has advised the Department in writing of the terms of this agreement.

Operational Noise Criteria – Ancillary Infrastructure

11. The Applicant must ensure that the noise generated by the operation of ancillary infrastructure does not exceed 35 dB(A) $L_{Aeq}(15 \text{ minute})$ at any non-associated residence.

Noise generated by the development is to be measured in accordance with the relevant requirements of the *NSW Industrial Noise Policy* (or its equivalent) as modified by the provisions in Appendix 4.

Operational Noise Monitoring

12. Within 6 months of the commencement of operations, the Applicant must:
 - (a) undertake noise monitoring to determine whether the development is complying with the relevant conditions of this consent; and
 - (b) submit a copy of the monitoring results to the Department and the EPA.
13. The Applicant must undertake further noise monitoring of the development if required by the Secretary.

AIR

14. The Applicant must:
 - (a) minimise the off-site dust, fume and blast emissions of the development; and
 - (b) minimise the surface disturbance of the site.

SOIL & WATER

Water Supply

15. The Applicant must ensure that it has sufficient water for all stages of the development; and if necessary, adjust the scale of the development to match its available water supply.

Note: Under the Water Act 1912 and/or the Water Management Act 2000, the Applicant is required to obtain the necessary water licences for the development.

Water Pollution

16. Unless an EPL authorises otherwise, the Applicant must comply with Section 120 of the POEO Act.

Note: Section 120 of the POEO Act makes it an offence to pollute any waters.

Operating Conditions

17. The Applicant must:
- (a) ensure the wind turbines and ancillary infrastructure, particularly any access roads on steep slopes, are designed, constructed and maintained to minimise any soil erosion;
 - (b) minimise any soil erosion associated with the construction and decommissioning of the development by implementing the relevant mitigation measures in *Managing Urban Stormwater: Soils and Construction* (Landcom, 2004), or its latest version;
 - (c) ensure all waterway crossings are constructed in accordance with the relevant *Water Guidelines for Controlled Activities on Waterfront Land* (2012), or their latest version;
 - (d) store and handle all dangerous or hazardous materials on site in accordance with *AS1940-2004: The storage and handling of flammable and combustible liquids*, or its latest version;
 - (e) ensure the concrete batching plants and substation are suitably bunded; and
 - (f) minimise any spills of hazardous materials or hydrocarbons, and clean up any spills as soon as possible after they occur.

BIODIVERSITY

Restrictions on Clearing and Habitat

18. The Applicant must:
- (a) ensure that no more than 1.05 hectares of the Tablelands Snow Gum, Black Salee, Candlebark and Ribbon Gum Grassy Woodland EEC is cleared for the development, unless the Secretary agrees otherwise;
 - (b) minimise:
 - the impacts of the development on hollow-bearing trees and termite mounds;
 - the impacts of the development on threatened bird and bat populations; and
 - the clearing of native vegetation and key habitat within the approved disturbance footprint.

Biodiversity Offset

19. Within 2 years of the commencement of construction, unless the Secretary agrees otherwise, the Applicant must retire biodiversity credits of a number and class specified in Table 3 below, to the satisfaction of OEH.

The retirement of the credits must be carried out in accordance with the *NSW Biodiversity Offsets Policy for Major Projects*, and can be achieved by:

- (a) acquiring or retiring credits under the biobanking scheme in the TSC Act;
- (b) making payments into an offset fund that has been established by the NSW Government; or
- (c) providing suitable supplementary measures.

Table 3: Ecosystem credit requirements

Biometric Vegetation Type	Biometric Condition	Impact Area (ha)	Credits Required
PCT ID 351: Brittle Gum – Board-leaved Peppermint – Red Stringy open forest in the north-western part (Yass to Orange) of South Eastern Highlands Bioregion	Moderate_Good_Moderate	0.67	44
	Moderate_Good_Sparse	0.24	
	Moderate_Good_Derived Native Grassland	1.11	
PCT ID 1097: Ribbon Gum – Narrow-leaved Peppermint grassy open forest on basalt plateaux, Sydney Basin Bioregion and South Eastern Highlands Bioregion	Moderate_Good_Moderate	1.05	41

Biodiversity Management Plan

20. Prior to the commencement of construction, the Applicant must prepare a Biodiversity Management Plan for the development to the satisfaction of the Secretary. This plan must:
- be prepared in consultation with OEH; and
 - include:
 - updated baseline mapping of the vegetation communities and key fauna habitat on site;
 - a description of the measures that would be implemented for:
 - minimising the amount of native vegetation clearing within the approved development footprint;
 - minimising the loss of key fauna habitat, including tree hollows and termite mounds;
 - minimising the impacts on fauna on site, including undertaking pre-clearance surveys;
 - rehabilitating and revegetating temporary disturbance areas;
 - protecting native vegetation and key fauna habitat outside the approved disturbance area;
 - maximising the salvage of resources within the approved disturbance area – including vegetative and soil resources – for beneficial reuse (including fauna habitat enhancement) during the rehabilitation and revegetation of the site;
 - collecting and propagating seed (where relevant);
 - controlling weeds and feral pests;
 - controlling erosion; and
 - bushfire management;
 - a detailed program to monitor and report on the effectiveness of these measures.

Following the Secretary's approval, the Applicant must implement the Biodiversity Management Plan.

Bird and Bat Adaptive Management Plan

21. Prior to the commissioning of any wind turbines, the Applicant must prepare a Bird and Bat Adaptive Management Plan for the development in consultation with OEH, and to the satisfaction of the Secretary. This plan must include:
- at least 12 months worth of current (or updated) baseline data on threatened and 'at risk' bird and bat species and populations in the locality that could be affected by the project;
 - a detailed description of the measures that would be implemented on site for minimising bird and bat strike during operation of the development, including:
 - minimising the availability of raptor perches;
 - prompt carcass removal;
 - controlling pests; and
 - using best practice methods for bat deterrence, including managing potential lighting impacts;
 - trigger levels for further investigation of the potential impacts of the project on particular bird or bat species or populations;
 - an adaptive management program that would be implemented if the development is having an adverse impact on a particular threatened or 'at risk' bird or bat species or population, including the implementation of measures to:
 - reduce the mortality of these species or populations (such as restricting operation of certain turbines during certain periods); or
 - enhance and propagate these species or population in the locality; and
 - a detailed program to monitor and report on the effectiveness of these measures, and any bird or bat strikes on site.

Following the Secretary's approval, the Applicant must implement the Bird and Bat Adaptive Management Plan.

HERITAGE

Protection of Aboriginal Heritage Sites

22. The Applicant must:
- (a) ensure the development does not cause any direct or indirect impact on the Aboriginal heritage sites identified in the table in Appendix 6, unless the Secretary agrees otherwise; and
 - (b) minimise any impacts on BWF PAD1, and carry out detailed test excavations and salvage of potential archaeological deposits at this site if impacts cannot be avoided.

Note: The locations of the Aboriginal heritage items referred to in this condition are shown on the figure in Appendix 6.

Heritage Management Plan

23. Prior to the commencement of construction, the Applicant must prepare a Heritage Management Plan for the development to the satisfaction of the Secretary. This plan must:
- (a) be prepared by a suitably qualified and experienced person whose appointment has been endorsed by the Secretary;
 - (b) be prepared in consultation with OEH and Aboriginal stakeholders;
 - (c) include updated baseline mapping of the heritage items within and adjoining the development disturbance area;
 - (d) include a description of the measures that would be implemented for:
 - protecting Aboriginal heritage sites outside the development disturbance area;
 - minimising and managing the impacts of the development on heritage items within the disturbance footprint, including:
 - test excavations and salvage (if required) of potential Archaeological deposits that will be impacted by the development (including heritage item BWF PAD 1);
 - salvage of heritage items BWF 8 and BWF 18; and
 - a strategy for the long term management of any Aboriginal heritage items or material collected during the test excavation or salvage works
 - a contingency plan and reporting procedure if:
 - Aboriginal heritage items outside the approved disturbance area are damaged;
 - previously unidentified Aboriginal heritage sites are found; or
 - Aboriginal skeletal material is discovered;
 - ensuring workers on site receive suitable heritage inductions prior to carrying out any development on site, and that records are kept of these inductions;
 - ongoing consultation with Aboriginal stakeholders during the implementation of the plan; and
 - (e) a program to monitor and report on the effectiveness of these measures and any heritage impacts of the project.

Following the Secretary's approval, the Applicant must implement the Heritage Management Plan.

TRANSPORT

Designated Heavy and Over-Dimensional Vehicle Routes

24. The Applicant must ensure that:
- (a) all over-dimensional vehicle access to and from the site is via the Hume Highway southern interchange through Goulburn, north along Crookwell-Goulburn Road and then bypassing Crookwell township via Grange Road, Cullen Street, Kialla Road and Range Road connecting to Grabben Gullen Road;
 - (b) all heavy vehicle access to and from the site is via the Hume Highway to Gunning then north along Grabben Gullen Road; and
 - (c) development related heavy vehicles must not travel on Hume Street and Yass Street in Gunning (south of Collector Road).

Notes:

- *The Applicant is required to obtain relevant permits under the Heavy Vehicle National Law (NSW) for the use of over-dimensional vehicles on the road network.*
- *The identified over-dimensional and heavy vehicle access routes are shown in the figure in Appendix 8.*

Road Upgrades

25. Prior to any over-dimensional vehicles accessing the site, the Applicant must carry out the road upgrades in the schedule of works in Appendix 7 to the satisfaction of Council.

Road Maintenance

26. The Applicant must:
- (a) prepare a dilapidation survey of:
 - the designated heavy vehicle route:
 - prior to the commencement of any construction or decommissioning works other than pre-construction minor works; and
 - within 1 month of the completion of any construction or decommissioning works other than pre-construction minor works;
 - the designated over-dimensional vehicle route:
 - prior to the use of the route by any over-dimensional vehicles for the construction or decommissioning of the development; and
 - within 1 month of the completion of the use of the route by over-dimensional vehicles for the construction or decommissioning of the development;
 - (b) rehabilitate and/or make good any development-related damage:
 - identified during the carrying out of the relevant construction and/or decommissioning works if it could endanger road safety, as soon as possible after the damage is identified but within 7 days at the latest; and
 - identified during any dilapidation survey carried out following the completion of the relevant construction and/or decommissioning works within 2 months of the completion of the survey, unless the relevant roads authority agrees otherwise,to the satisfaction of the relevant roads authority.

If the construction and/or decommissioning of the development is to be staged, the obligations in this condition apply to each stage of construction and/or decommissioning.

If there is a dispute about the scope of any remedial works or the implementation of these works, then either party may refer the matter to the Secretary for resolution.

Unformed Crown Roads

27. The Applicant must ensure any unformed Crown road reserves affected by the development are maintained for future use.

Traffic Management Plan

28. Prior to the commencement of construction, the Applicant must prepare a Traffic Management Plan for the development in consultation with RMS and Council, and to the satisfaction of the Secretary. This plan must:
- (a) detail the measures that would be implemented to:
 - minimise the traffic safety impacts of the development and disruptions to local road users during the construction and decommissioning of the development, including:
 - temporary traffic controls, including detours and signage;
 - notifying the local community about development-related traffic impacts;
 - avoiding potential conflicts between development-related traffic and the stock movements of the owner of Residence H07 by implementing measures such as:
 - o consulting with the landowner to confirm likely stock movement frequency, timing and duration;
 - o notification protocols for stock movements, including a dedicated phone number; and
 - o temporary traffic controls on Grabben Gullen Road such as traffic flags or signals;
 - avoiding potential conflict between development-related traffic and school buses in consultation with school bus operators by implementing measures such as avoiding traffic movements during school bus service times or providing an escort for school buses;
 - ensuring development-related traffic does not track dirt onto the public road network;
 - ensuring loaded vehicles entering or leaving the site have their loads covered or contained;
 - there is sufficient parking on site for all development-related traffic;
 - responding to any emergency repair requirements or maintenance during construction and/or decommissioning; and
 - a traffic management system for managing over-dimensional vehicles;
 - comply with the traffic conditions in this consent;
 - (b) include a drivers code of conduct that addresses:
 - travelling speeds;
 - procedures to ensure that drivers adhere to the designated heavy and over-dimensional vehicle routes; and
 - procedures to ensure that drivers implement safe driving practices;
 - (c) include a detailed program to monitor and report on the effectiveness of these measures and the code of conduct.

Following the Secretary's approval, the Applicant must implement the Traffic Management Plan.

AVIATION

Notification of Aviation Authorities

29. Prior to the construction of any wind turbine or wind monitoring mast, the Applicant must provide the following information to CASA, Airservices Australia, and the RAAF (together the authorities):
- (a) coordinates in latitude and longitude of each wind turbine and mast;
 - (b) final height of each wind turbine and mast in Australian Height Datum;
 - (c) ground level at the base of each wind turbine and mast in Australian Height Datum;
 - (d) confirmation of compliance with any OLS; and
 - (e) details of any proposed aviation hazard lighting.
30. Within 30 days of the practical completion of the construction of any wind turbine or mast, the Applicant must:
- (a) provide confirmation to the authorities that the information that was previously provided remains accurate; or
 - (b) update the information previously provided.

RADIOCOMMUNICATIONS

31. Prior to the construction of any wind turbines, the Applicant must:
- (a) re-route the fixed point-to-point microwave link crossing the middle of the site to the satisfaction of RFS; and
 - (b) implement measures to minimise the risk of television broadcasting interference due to the development at residences H03, H05, H06 and H07.
32. If the development results in the disruption to any radiocommunications services (including point-to-point microwave links) in the area, then the Applicant must make good any disruption to these services as soon as possible following the disruption, but no later than 1 month following the disruption of the service unless the relevant service provider or user or Secretary agrees otherwise.

If there is a dispute about the mitigation measures to be implemented or the implementation of these mitigation measures, then either party may refer the matter to the Secretary for resolution.

BUSHFIRE

33. The Applicant must:
- (a) ensure that the development:
 - provides for asset protection in accordance with the RFS's *Planning for Bushfire Protection 2006* (or equivalent);
 - is suitably equipped to respond to any fires on site;
 - (b) develop procedures to manage potential fires on site, in consultation with the RFS; and
 - (c) assist the RFS and emergency services as much as possible if there is a fire in the vicinity of the site.

SAFETY

34. The Applicant must:
- (a) prepare a Safety Management System for the development in accordance with the Department's *Hazardous Industry Planning Advisory Paper No. 9, 'Safety Management'* prior to commissioning any wind turbines on site; and
 - (b) implement, and if necessary update, the system over the remaining life of the development.

WASTE

35. The Applicant must:
- (a) minimise the waste generated by the development;
 - (b) classify all waste generated on site in accordance with the EPA's *Waste Classification Guidelines 2014* (or its latest version);
 - (c) store and handle all waste generated on site in accordance with its classification;
 - (d) not receive or dispose of any waste on site; and
 - (e) ensure all waste is disposed of at appropriately licensed waste facilities.

REHABILITATION & DECOMMISSIONING

Rehabilitation Objectives – Decommissioning

36. Within 18 months of the cessation of operations, unless the Secretary agrees otherwise, the Applicant must rehabilitate the site to the satisfaction of the Secretary. This rehabilitation must comply with the objectives in Table 4.

Table 4: Rehabilitation Objectives

Feature	Objective
Development site (as a whole)	<ul style="list-style-type: none">• Safe, stable and non-polluting• Minimise the visual impact of any above ground ancillary infrastructure agreed to be retained for an alternative use as far as is reasonable and feasible
Revegetation	<ul style="list-style-type: none">• Restore native vegetation generally as identified in the EIS
Above ground wind turbine infrastructure (excluding wind turbine pads)	<ul style="list-style-type: none">• To be decommissioned and removed, unless the Secretary agrees otherwise
Wind turbine pads	<ul style="list-style-type: none">• To be covered with soil and/or rock and revegetated
Above ground ancillary infrastructure	<ul style="list-style-type: none">• To be decommissioned and removed, unless an agreed alternative use is identified to the satisfaction of the Secretary
Internal access roads	<ul style="list-style-type: none">• To be decommissioned and removed, unless an agreed alternative use is identified to the satisfaction of the Secretary
Land use	<ul style="list-style-type: none">• Restore or maintain land capability as described in the EIS
Community	<ul style="list-style-type: none">• Ensure public safety

Progressive Rehabilitation

37. The Applicant must:
- (a) rehabilitate all areas of the site not proposed for future disturbance progressively, that is, as soon as reasonably practicable following construction or decommissioning;
 - (b) minimise the total area exposed at any time; and
 - (c) employ interim rehabilitation strategies to minimise dust generation, soil erosion and weed incursion on parts of the site that cannot yet be permanently rehabilitated.

Dismantling of Wind Turbines

38. Any individual wind turbines which cease operating for more than 12 consecutive months must be dismantled within 18 months after that 12 month period, unless the Secretary agrees otherwise.

SCHEDULE 4

ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING

ENVIRONMENTAL MANAGEMENT

Environmental Management Strategy

1. Prior to the commencement of construction, the Applicant must prepare an Environmental Management Strategy for the development to the satisfaction of the Secretary. This strategy must:
 - (a) provide the strategic framework for environmental management of the development;
 - (b) identify the statutory approvals that apply to the development;
 - (c) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the development;
 - (d) describe the procedures that would be implemented to:
 - keep the local community and relevant agencies informed about the operation and environmental performance of the development;
 - receive, handle, respond to, and record complaints;
 - resolve any disputes that may arise;
 - respond to any non-compliance;
 - respond to emergencies; and
 - (e) include:
 - copies of any strategies, plans and programs approved under the conditions of this consent; and
 - a clear plan depicting all the monitoring to be carried out in relation to the development, including a table summarising all the monitoring and reporting obligations under the conditions of this consent.

Following the Secretary's approval, the Applicant shall implement the Environmental Management Strategy.

Revision of Strategies, Plans and Programs

2. Within 3 months of the submission of:
 - (a) an incident report under condition 4 below;
 - (b) an audit report under condition 7 below; or
 - (c) any modification to the conditions of this consent (unless the conditions require otherwise),the Applicant must review and, if necessary, revise the strategies, plans, and programs required under this consent to the satisfaction of the Secretary. Where this review leads to revisions in any such document, then within 4 weeks of the review the revised document must be submitted to the Secretary for approval.

Note: This is to ensure the strategies, plans and programs are updated on a regular basis, and incorporate any recommended measures to improve the environmental performance of the development.

Community Consultative Committee

3. The Applicant must:
 - (a) operate a Community Consultative Committee for the development prior to the commencement of construction; and
 - (b) operate this Committee following establishment, to the satisfaction of the Secretary, and in accordance with the *Community Consultative Committee Guidelines for State Significant Projects (2016)*, or its latest version.

REPORTING

Incident Reporting

4. The Applicant must immediately notify the Secretary and any other relevant agencies of any incident. Within 7 days of the date of the incident, the Applicant shall provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested.

Regular Reporting

5. The Applicant must provide regular reporting on the environmental performance of the development on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this consent.

AUDITING

6. Within 1 year of the commencement of construction, and every 3 years thereafter, unless the Secretary directs otherwise, the Applicant must commission and pay the full cost of an Independent Environmental Audit of the development. This audit must:
- be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary;
 - include consultation with the relevant agencies;
 - assess the environmental performance of the development and assess whether it is complying with the requirements in this consent and any relevant EPL/s;
 - review the adequacy of any approved strategy, plan or program required under the abovementioned approvals; and
 - recommend measures or actions to improve the environmental performance of the development, and/or any strategy, plan or program required under these approvals.

Notes:

- This audit team must be led by a suitably qualified auditor and/or experts in any other fields specified by the Secretary.*
- The Department's Independent Audit Guideline for State Significant Development provides an audit and reporting framework for the independent audit that will guide compliance with this condition.*

7. Within 3 months of commissioning this audit, or as otherwise agreed by the Secretary, the Applicant must submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report and a timetable for the implementation of these recommendations as required.
8. The Applicant must implement these recommendations to the satisfaction of the Secretary.

ACCESS TO INFORMATION

9. The Applicant must:
- make the following information publicly available on its website as relevant to the stage of the development:
 - the EIS;
 - the final layout plans for the development;
 - current statutory approvals for the development;
 - approved strategies, plans or programs required under the conditions of this consent;
 - the proposed staging plans for the development if the construction, operation and/or decommissioning of the development is to be staged;
 - a comprehensive summary of the monitoring results of the development, which have been reported in accordance with the various plans and programs approved under the conditions of this consent;
 - a complaints register, which is to be updated on a monthly basis;
 - minutes of CCC meetings;
 - the annual Statement of Compliance with the EPL
 - any independent environmental audit, and the Applicant's response to the recommendations in any audit; and
 - any other matter required by the Secretary; and
 - keep this information up to date, to the satisfaction of the Secretary.
-

**APPENDIX 1
SCHEDULE OF LAND**

Lot Number	Deposited Plan (DP)
10, 11, 12	1117737
7,20, 114, 131, 151, 192, 217, 255, 256, 257, 258, 259, 286, 287, 299, 301, 302, 319,329, 333, 334, 335, 336, 340, 345, 347, 348, 350, 351, 352, , 365	754126
1, 2	1115746
1, 2	878594
18, 19	878997

APPENDIX 2 DEVELOPMENT LAYOUT

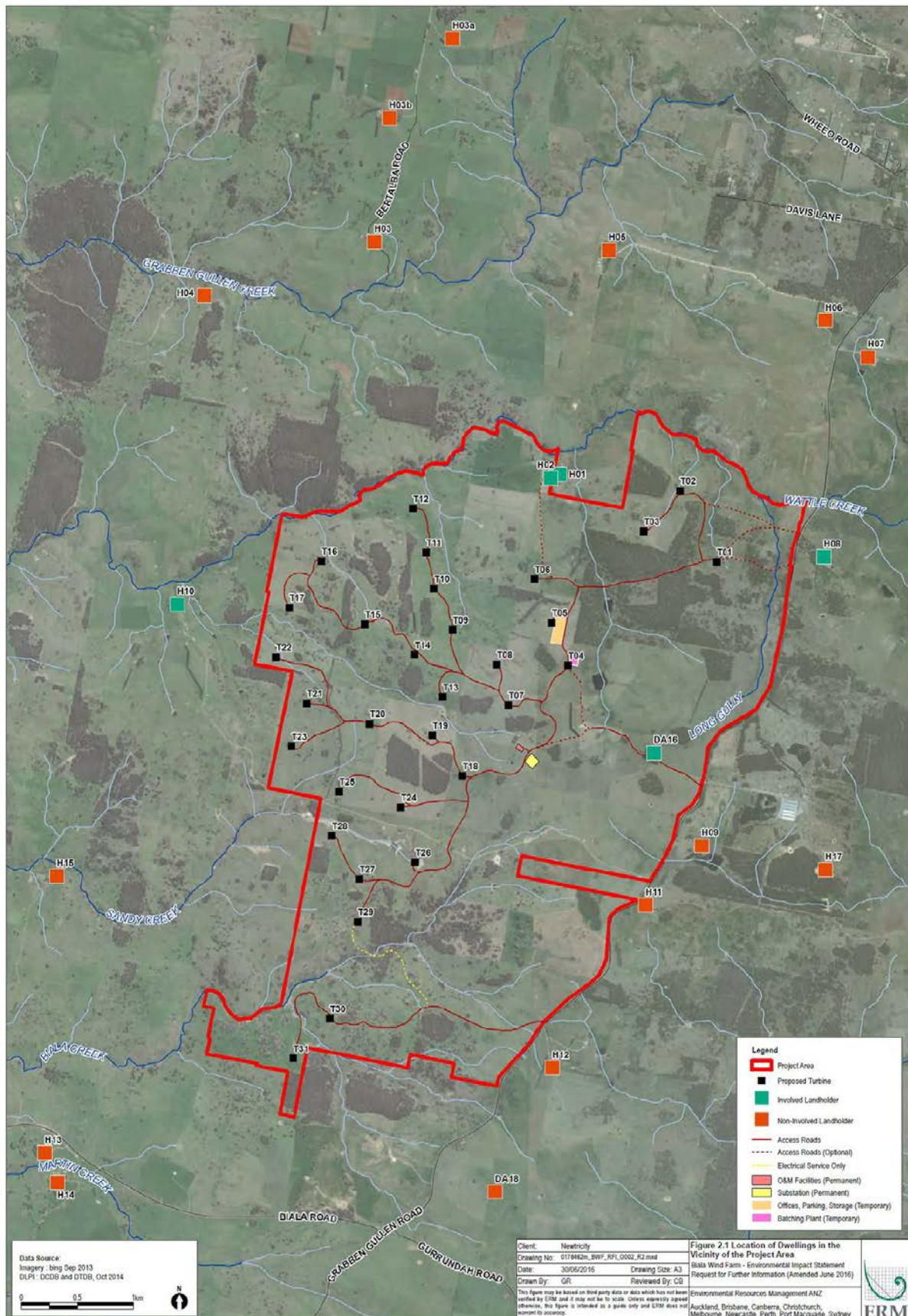




Table 2-1: GPS Coordinates of turbines

Turbine ID	Easting (m) ¹	Northing (m) ¹
T01	717864	6171824
T02	717535	6172459
T03	717211	6172095
T04	716535	6170896
T05	716389	6171280
T06	716235	6171670
T07	716003	6170542
T08	715899	6170905
T09	715503	6171219
T10	715337	6171583
T11	715269	6171908
T12	715149	6172300
T13	715415	6170615
T14	715165	6170992
T15	714719	6171266
T16	714332	6171832
T17	714042	6171415
T18	715593	6169908
T19	715322	6170274
T20	714763	6170375
T21	714201	6170556
T22	713921	6170969
T23	714064	6170175
T24	715042	6169630
T25	714491	6169769
T26	715169	6169139
T27	714673	6168987
T28	714425	6169376
T29	714657	6168605
T30	714409	6167741
T31	714079	6167384

Notes: 1. Coordinate system is WGS84 Zone 55H

APPENDIX 3

GENERAL TERMS OF APPLICANT'S VPA OFFER

The VPA with the Upper Lachlan Shire Council shall include provisions for the payment, collection, management and distribution of the contributions under the agreement, with a focus on funding community projects in the area surrounding the project site. Payment details shall include:

- \$2,500 per wind turbine per annum as installed at the development over the operational life of the development, commencing on the date on which the development begins 'operation' and ceasing when the development is 'decommissioned' in accordance with the definitions in this consent, and CPI adjusted over time commencing at the September 2010 quarter.

APPENDIX 4 NOISE COMPLIANCE ASSESSMENT

PART A: SOUTH AUSTRALIAN WIND FARMS: ENVIRONMENTAL NOISE GUIDELINES 2009 (MODIFIED)

South Australian *Wind Farms: Environmental Noise Guidelines 2009* (Modified) refers to the South Australian EPA document modified for use in NSW.

The modifications are as follows:

Tonality

The presence of excessive tonality (a special noise characteristic) is consistent with that described in *ISO 1996.2: 2007 Acoustics — Description, measurement and assessment of environmental noise – Determination of environmental noise levels* and is defined as when the level of one-third octave band measured in the equivalent noise level $L_{eq}(10\text{minute})$ exceeds the level of the adjacent bands on both sides by:

- 5dB or more if the centre frequency of the band containing the tone is in the range 500Hz to 10,000Hz;
- 8dB or more if the centre frequency of the band containing the tone is in the range 160 to 400Hz; and/or
- 15dB or more if the centre frequency of the band containing the tone is in the range 25Hz to 125Hz.

If tonality is found to be a repeated characteristic of the wind turbine noise, 5 dB(A) should be added to measured noise levels from the wind farm. If tonality is only identified for certain wind directions and speeds, the penalty is only applicable under these conditions. The tonal characteristic penalty applies only if the tone from the wind turbine is audible at the relevant receiver. Absence of tone in noise emissions measured at an intermediate location is sufficient proof that the tone at the receiver is not associated with the wind farm's operation. The assessment for tonality should only be made for frequencies of concern from 25 Hz to 10 KHz and for sound pressure levels above the threshold of hearing (as defined in *ISO 389.7: 2005 Acoustics - Reference zero for the calibration of audiometric equipment - Part 7: Reference threshold of hearing under free-field and diffuse-field listening conditions*).

Low Frequency Noise

The presence of excessive low frequency noise (a special noise characteristic) [i.e. noise from the wind farm that is repeatedly greater than 65 dB(C) during the day time or 60 dB(C) during the night time at any relevant receiver] will incur a 5 dB(A) penalty, to be added to the measured noise level for the wind farm, unless a detailed internal low frequency noise assessment demonstrates compliance with the proposed criteria for the assessment of low frequency noise disturbance (UK Department for Environment, Food and Rural Affairs (DEFRA, 2005)) for a steady state noise source.

Notes:

- For the purposes of these conditions, a special noise characteristic is defined as a repeated characteristic if it occurs for more than 10% of an assessment period. This equates to being identified for more than 144 minutes during any 24 hour period. This definition refers to verified wind farm noise only.
- The maximum penalty to be added to the measured noise level from the wind farm for any special noise characteristic individually or cumulatively is 5 dB(A).

PART B: NOISE COMPLIANCE ASSESSMENT

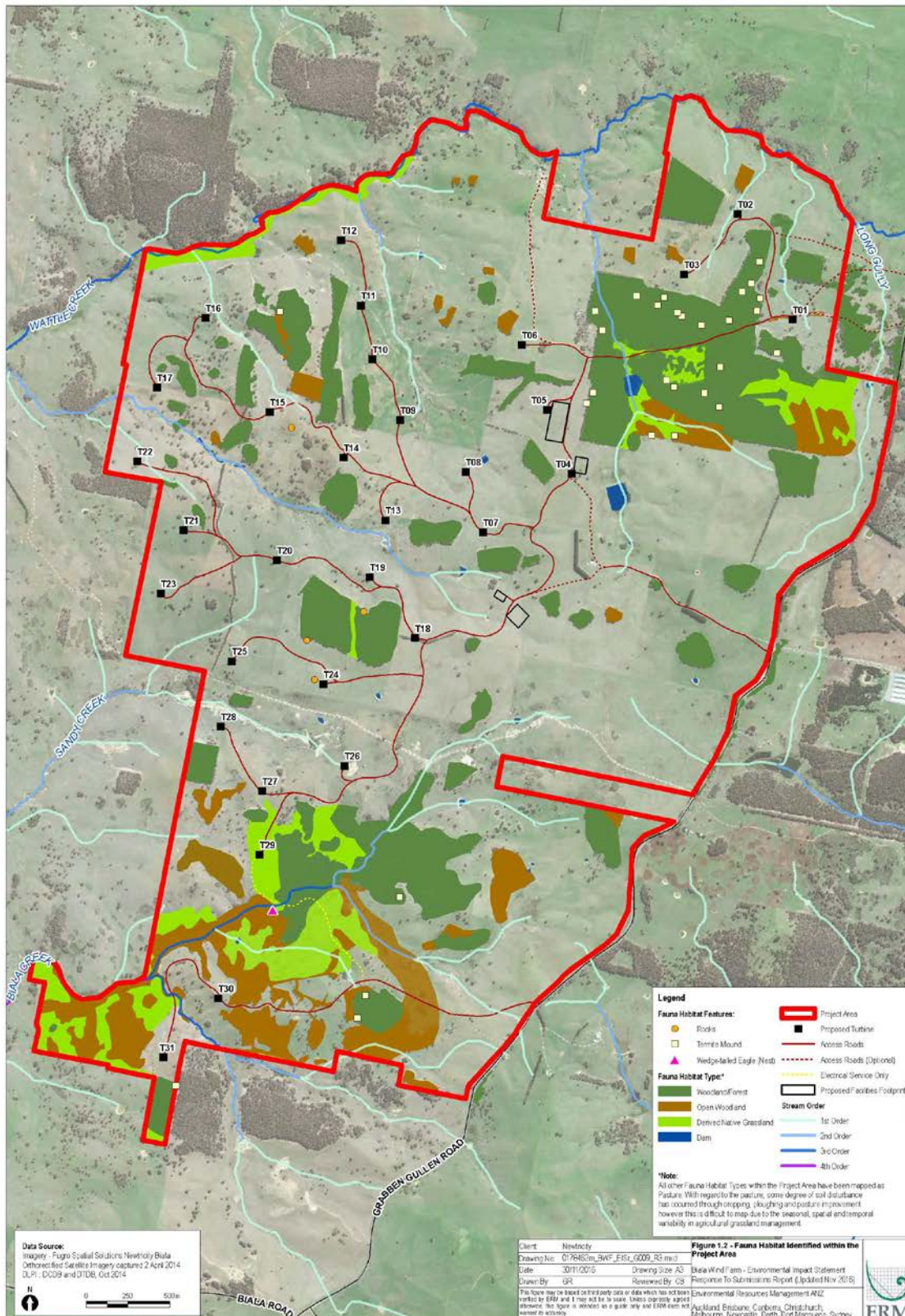
Applicable Meteorological Conditions – Wind Turbines

1. The noise criteria in Table 2 of the conditions are to apply under all meteorological conditions.

Applicable Meteorological Conditions – Other Facilities

2. The noise criteria in condition 10 are to apply under all meteorological conditions except the following:
 - a) wind speeds greater than 3 m/s at 10 m above ground level; or
 - b) temperature inversion conditions between 1.5 °C and 3°C/100m and wind speeds greater than 2 m/s at 10 m above ground level; or
 - c) temperature inversion conditions greater than 3°C/100m.

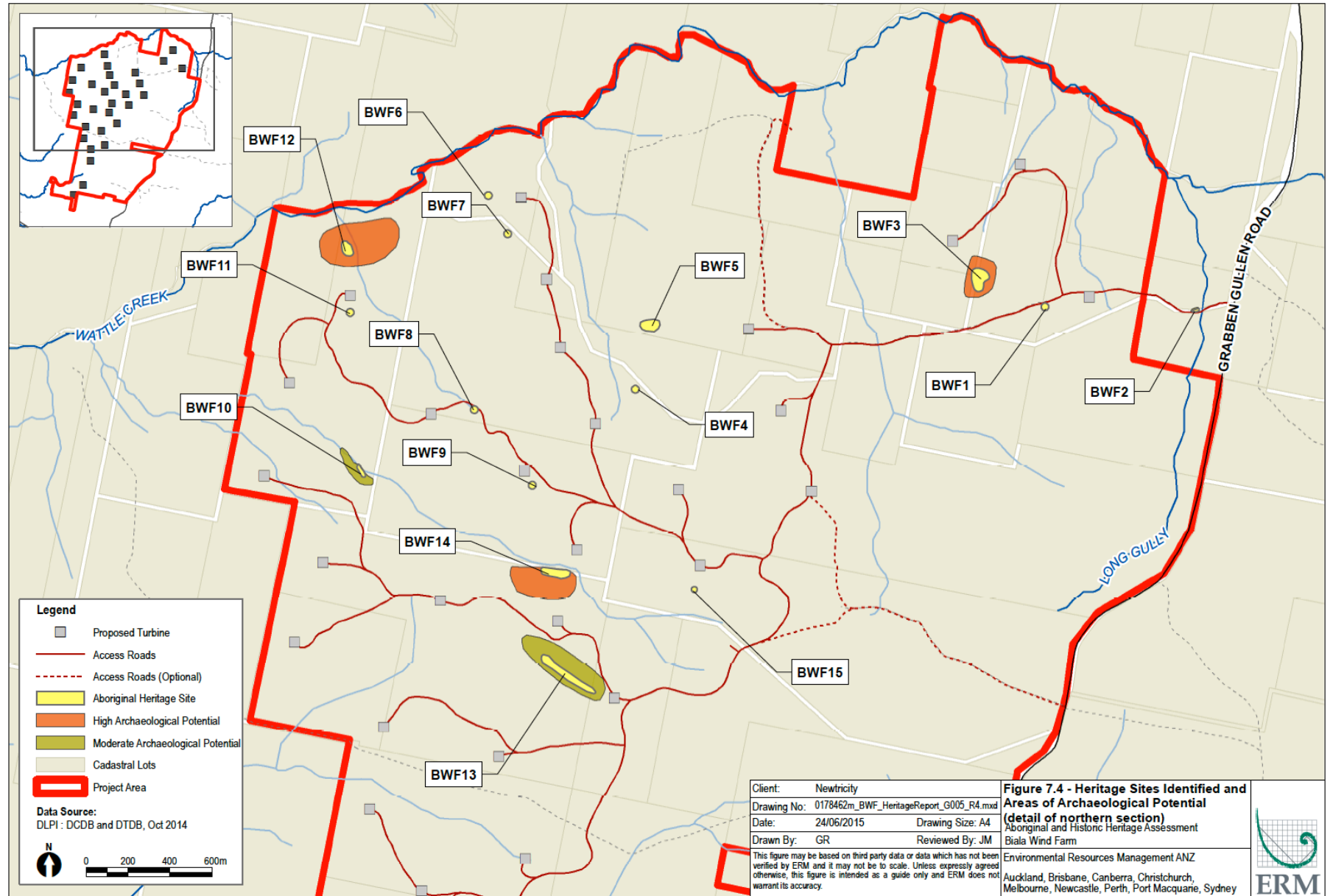
APPENDIX 5 BIODIVERSITY

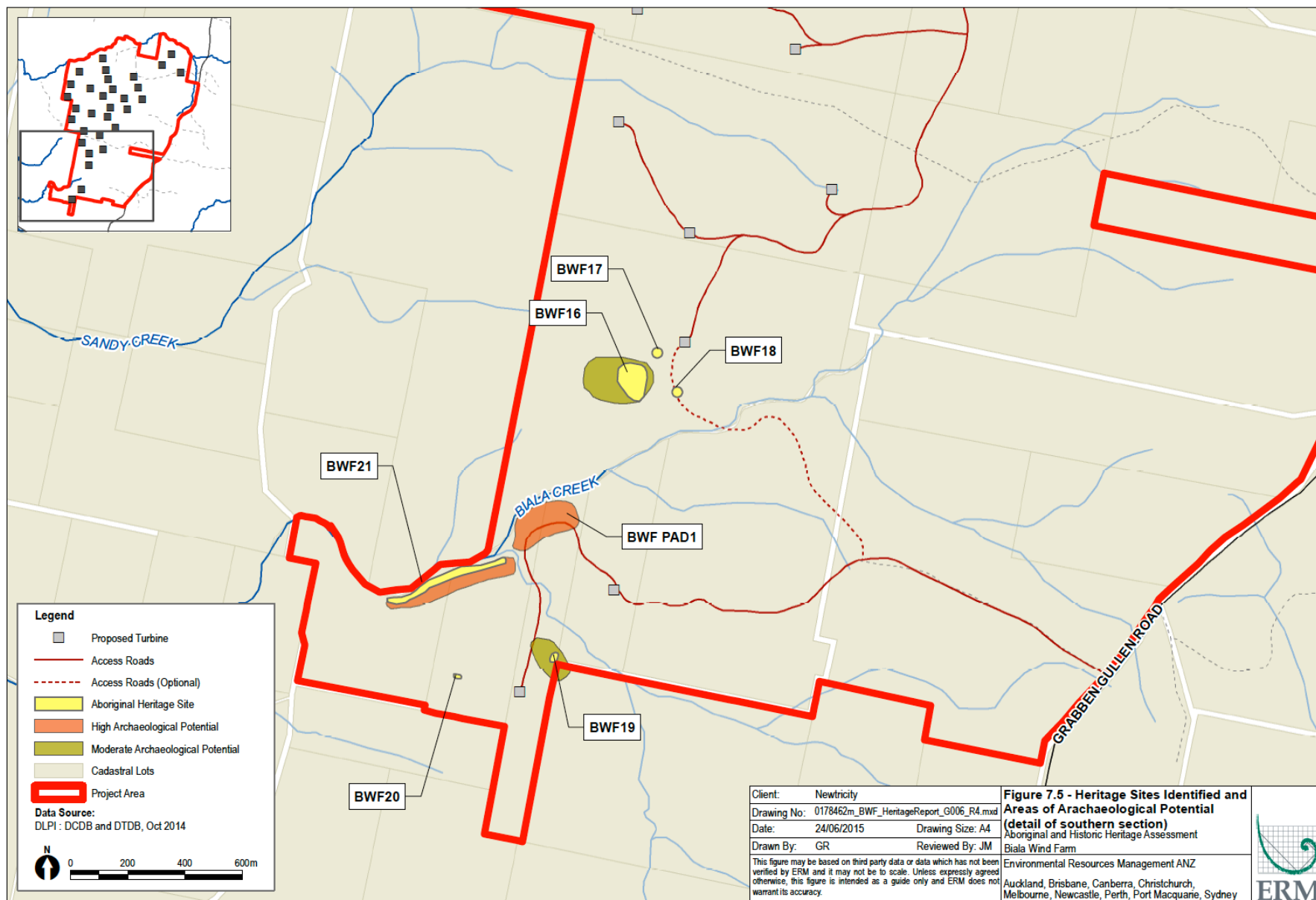


APPENDIX 6
ABORIGINAL HERITAGE SITES

Aboriginal Heritage Sites - Avoid Impact

Site
BWF1, BWF2, BWF3, BWF4, BWF5, BWF6, BWF7, BWF9, BWF10, BWF11, BWF12, BWF13, BWF14, BWF15, BWF16, BWF17, BWF19, BWF20, BWF21





APPENDIX 7 SCHEDULE OF ROAD UPGRADES



ADMIN 011 011 241 892

Upper Lachlan Shire Council

All correspondence addressed to the General Manager, PO Box 42, Gunning NSW 2581

Crookwell Office: 44 Spring Street, Crookwell NSW 2583

p: 02 4830 1000 | f: 02 4832 2066 | e: council@upperlachlan.nsw.gov.au | www.upperlachlan.local.nsw.gov.au

Gunning Office: 123 Yass Street, Gunning NSW 2581

p: 02 4845 4100 | f: 02 4845 1426 | e: council@upperlachlan.nsw.gov.au

Teralga Office: Teralga Community Service Centre, Orchard Street, Teralga NSW 2580

p: 02 4840 2099 | f: 4840 2205 | e: teralgacouncil@teralga.nsw.gov.au

Councils Requirements for the Reconstruction of the Roads Involved With the Over Mass and Overdimension Route to the Bialla Windfarm Project:

This schedule was developed during a field inspection of the route with representatives from Newtricity, ERM consultants, GTA consultants and ULSC on 3 December 2015.

The locations shown are based on chainages that are measured from the intersection of the Goulburn – Crookwell Rod (Main Road 54) AND Grange Road.

The works required are as follows:

I. Replacement of causeways

- a. Kialla Road – Seven causeways require replacement with pipe culverts to enable long vehicles to cross without ‘bottoming out’ on the pavement (and subsequently damaging the pavement);
- b. Range Road – Two causeways require replacement with culverts

II. Rehabilitation of Pavements

- a. Kialla Road – rehabilitation is required to the pavements at the following locations:
 - i. 7.69km – 8.29km (600m)
 - ii. 11.19km – 12.67km (1.5km)
- b. Range Road rehabilitation is required to the pavements:
 - i. 12.81km – 20km (7.3km)

The scope of the work is as follows:

- a. Remove grass and debris from the roadside out to the required width.
- b. Clear roadside drains to ensure that sound drainage is provided for the pavement and that it connects adequately to the road cross drainage culverts and causeways.
- c. Install approved soil erosion protection structures to drains and other areas as required.
- d. Shape shoulders to correct crossfall (4%) and add gravel to ensure correct width and cross sectional shape is achieved.

- e. Tyne existing pavement ,reshape to ensure correct crossfall is achieved and add 100mm of approved material that will be imported from an approved quarry.
- f. Add pavement stabilisation chemicals in accordance with geotechnical recommendations and mix with approved pavement mixing machine to achieve a homogenous pavement of minimum 200mm thickness.
- g. Shape and compact the pavement to specification.
- h. Apply topsoil to roadside areas to match adjusted levels to existing.
- i. Final trim pavement.
- j. Apply 14/7 double/double coat seal.
- k. Ensure that all erosion control devices are in place and working correctly.
- l. Apply 7mm reseal at completion of windfarm construction.

The specifications for this work are as follows:

- a. Seal width - 6.5m
- b. Shoulder width 1m (each side).
- c. Min. Crossfall 4% (on straight alignment)
- d. Superelevation (and transitions) on curves to be determined between contractor and ULSC.
- e. Min. compaction for pavement materials is 100% of standard compaction value.

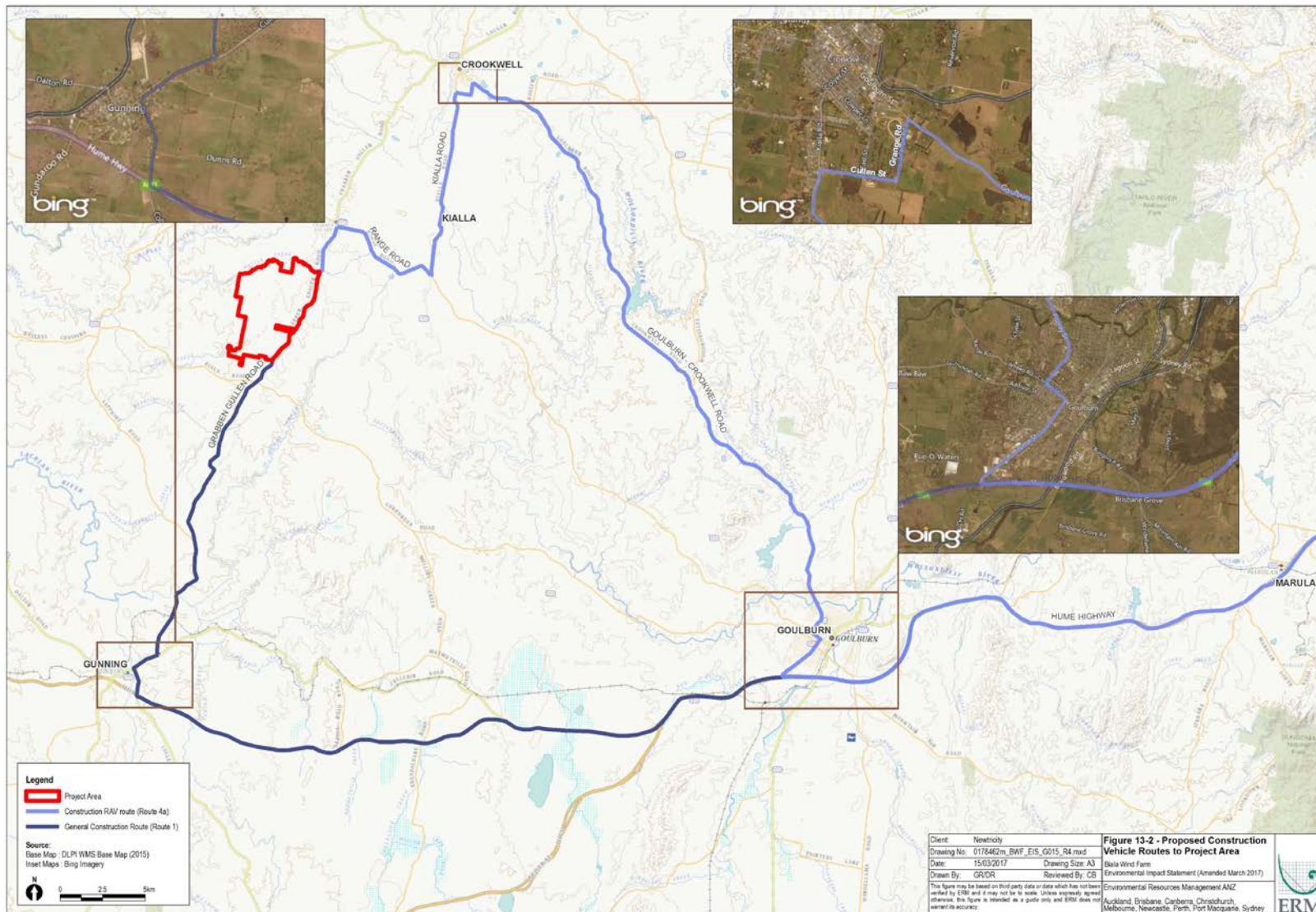
Councils experience with the type of rehabilitation required indicates that the costs of such works are around \$280,000 - \$300,000/km. This will vary due to timing and the effect of time over the costs of inputs.

III. Intersection treatments to facilitate turning with long/wide loads:

- a. MR54 (Goulburn Road)/Grange Road intersection will require removal of several trees on the south eastern side of the intersection. It should be noted that the trees on the northern side of MR54 must not be touched;
- b. Grange Road/Cullen Street – this intersection will require widening. It should be noted that the widening cannot be constructed on the inside of the intersection due to the presence of a large protected tree;
- c. Cullen Street/Kialla Road – this intersection has a bypass track that was constructed for the Gullen Range Windfarm. The landowner of the land may be willing to enter into a similar arrangement with Newtricity;
- d. Kialla Road/Range Road – this intersection will require some earthworks to allow it to be traversed by over mass and overdimension vehicles;
- e. Range Road/Grabben Gullen Road – this intersection will require some modification for use by over mass and overdimension vehicles;
- f. Access arrangements to the Windfarm site – Council is aware that Newtricity wishes to use three locations to access the site from Grabben Gullen Road. As

was determined during the site inspection, none of these have adequate sight distance. Council acknowledges that adequate site could be available by relocating each access. Council understands that Newtricity has arranged for alternate access arrangements to be put in place. The locations appear to have adequate available sight distance and (subject to final measurements and design) will satisfy Council's requirements.

APPENDIX 8 OVER-DIMENSIONAL & HEAVY VEHICLE ACCESS ROUTES



Annex B

Biodiversity Management Plan

Annex C

Community Consultation Strategy

Annex D

Aboriginal Cultural Heritage Management Plan

Annex E

Traffic Management Plan

Annex F

Bird and Bat Adaptive Management Plan

Annex G

Construction Noise and Vibration Management Plan

Annex H

Air Quality Management Procedure

Annex I

Soil and Water Quality Management Procedure

Annex J

Bushfire Response Map

Annex K

Waste Management And Classification Procedure

Annex L

Operational Noise Management Plan

Annex M

Complaints Handling Procedure

Annex N

Pollution Incident Response Management Plan

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